

NEWFIELD



January 20, 2005

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Jonah Federal 15-15-9-16 and 16-15-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 15-15-9-16 location is also an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
JAN 21 2005  
DIV. OF OIL, GAS & MINING

001

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-017985

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

~~N/A~~ Jonah

8. Lease Name and Well No.

Jonah Federal 16-15-9-16

9. API Well No.

43-013-32754

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

SE/SE Sec. 15, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SE/SE 512' FSL 535' FEL 577029X 40.024945

At proposed prod. zone 4430706Y -110.097299

14. Distance in miles and direction from nearest town or post office\*

Approximatley 21.5 miles south of Myton, Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) Approx. 512' f/lease, 512' f/unit

16. No. of Acres in lease

560.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1,420'

19. Proposed Depth

5915'

20. BLM/BIA Bond No. on file

UTU0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5704' GL

22. Approximate date work will start\*

1st Quarter 2005

23. Estimated duration

Approximately seven (7) days from spud to rig release.

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

1/20/05

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL  
ENVIRONMENTAL SCIENTIST III

Date

01-24-05

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

JAN 21 2005

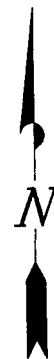
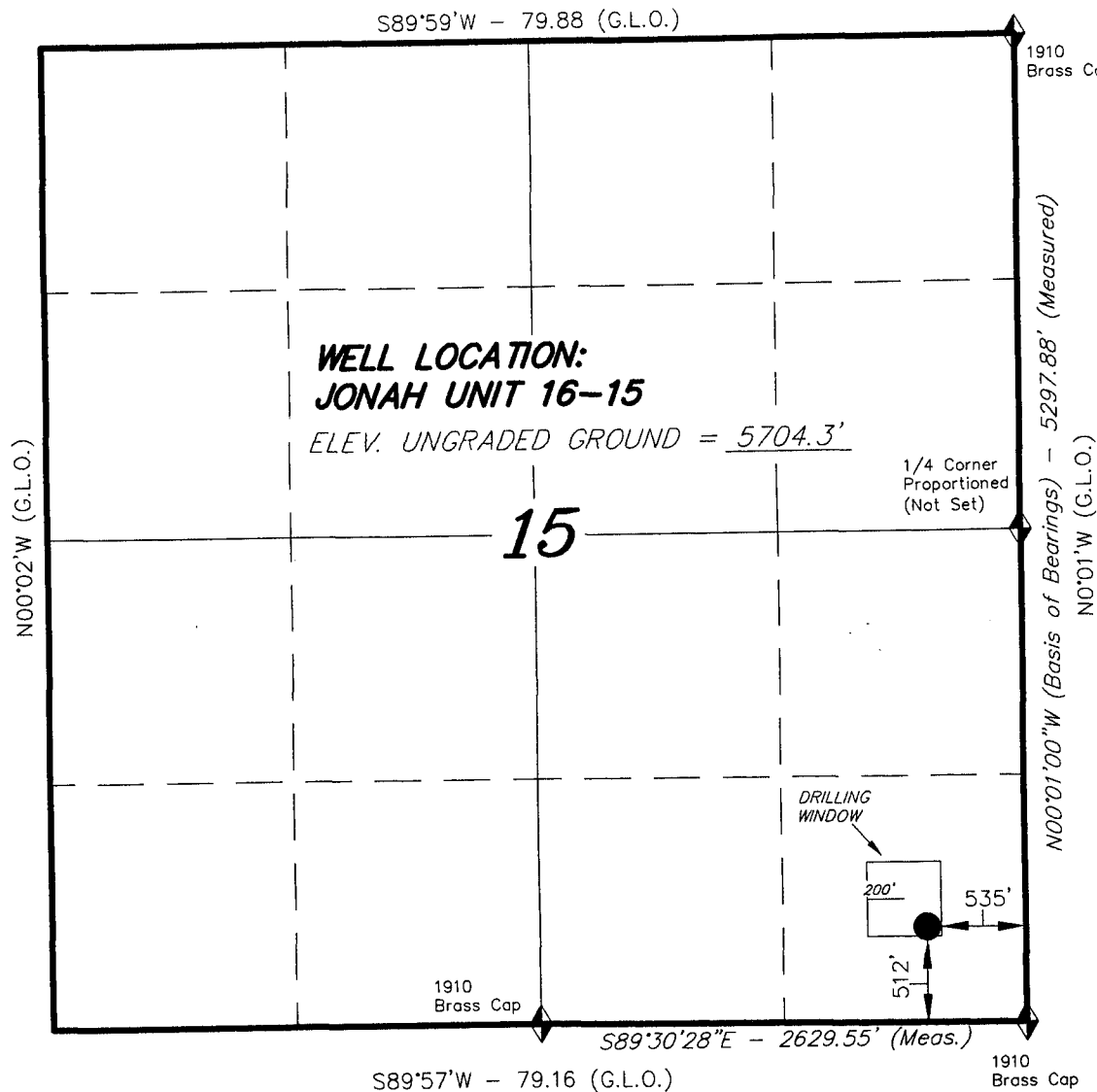
Federal Approval of this  
Action Is Necessary

DIV. OF OIL, GAS &amp; MINING

**T9S, R16E, S.L.B.&M.**

**INLAND PRODUCTION COMPANY**

WELL LOCATION, JONAH UNIT 16-15,  
LOCATED AS SHOWN IN THE SE 1/4 SE  
1/4 OF SECTION 15, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

*Stacy W. Stewart*  
STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: D.J.S.
DATE: 8-25-04	DRAFTED BY: F.T.M.
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL #16-15-9-16  
SE/SE SECTION 15, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 1640'
Green River	1915'
Wasatch	5915'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1915' – 5915' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL #16-15-9-16  
SE/SE SECTION 15, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Jonah Federal #16-15-9-16 located in the SE 1/4 SE 1/4 Section 15, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 10.9 miles  $\pm$  to it's junction with an existing road to the northeast; proceed northeasterly and then southwesterly - 7.7 miles  $\pm$  to it's junction with an existing road to the east; proceed easterly - 1.3 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed southerly along the proposed access road - 1,055'  $\pm$  to the proposed well location.

2. **PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

3. **LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. **LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-348, 1/12/05. Paleontological Resource Survey prepared by, Wade E. Miller, 11/11/04. See attached report cover pages, Exhibit "D".

For the Jonah Federal #16-15-9-16 Newfield Production Company requests 1,055' of disturbed area be granted in Lease UTU-017985 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 1,055' of disturbed area be granted in Lease UTU-017985 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

Possible Rapture Nest – Dixie Sadler to Advise.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Black Sage	<i>Artemisia Nova</i>	1 lbs/acre
Indian Rice Grass	<i>Oryzopsis Hymenoides</i>	6 lbs/acre

Green Molly Summer Cyress

Kochia American

5 lbs/acre

**Details of the On-Site Inspection**

The proposed Jonah Federal #16-15-9-16 was on-sited on 5/19/04. The following were present; Brad Mecham (Newfield Production), David Gerbig (Newfield Production), and Byron Tolman (Bureau of Land Management). Weather conditions were clear at 70 degrees.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Brad Mecham

Address: Route #3 Box 3630  
Myton, UT 84052

Telephone: (435) 646-3721

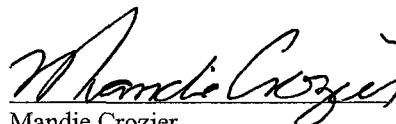
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #16-15-9-16 SE/SE Section 15, Township 9S, Range 16E: Lease UTU-017985 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

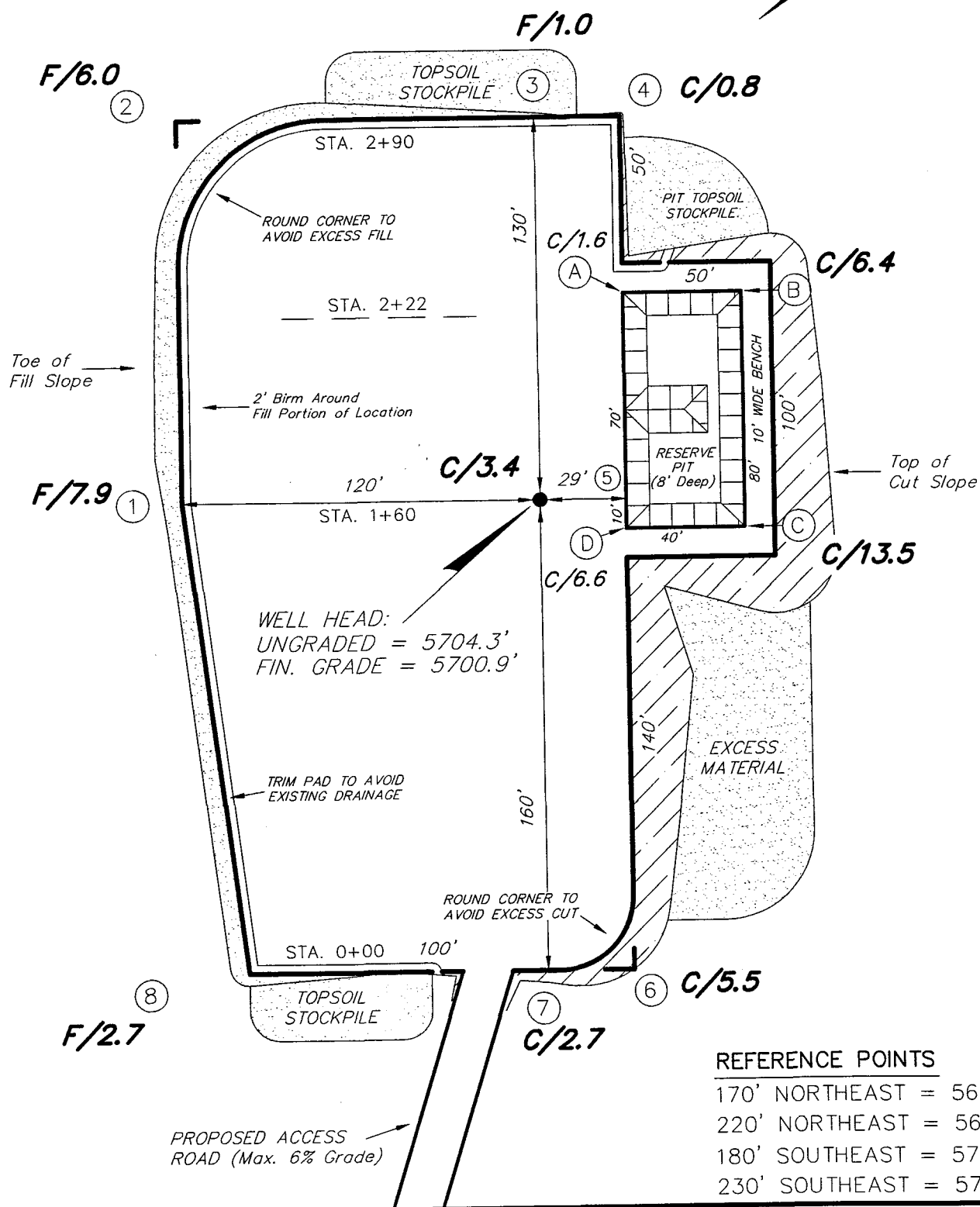
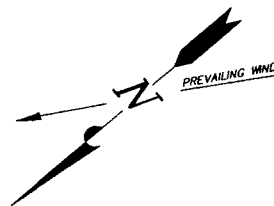
1/20/05

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

Section 15, T9S, R16E, S.L.B.&M.



170'	NORTHEAST	=	5697.3'
220'	NORTHEAST	=	5691.5'
180'	SOUTHEAST	=	5700.9'
230'	SOUTHEAST	=	5702.4'

DATE: 8-24-04

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

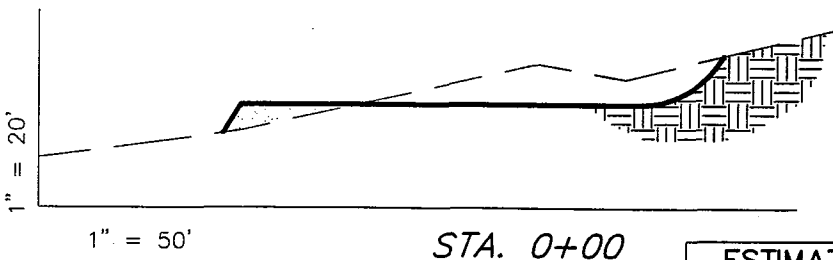
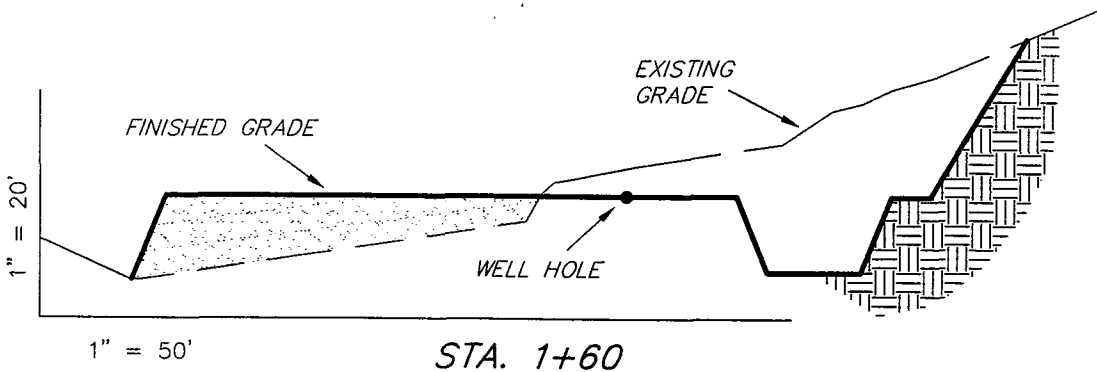
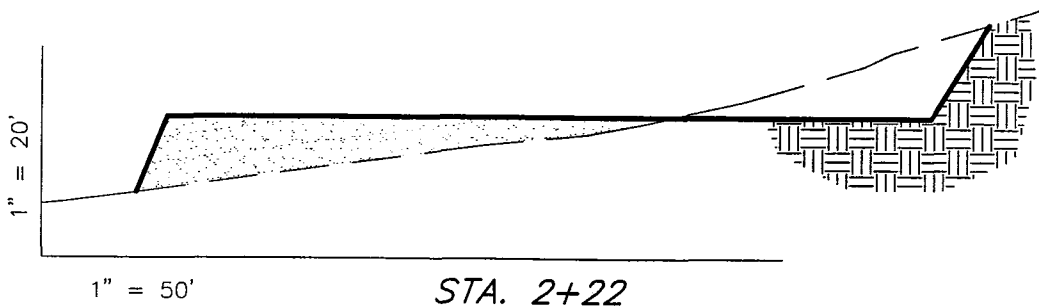
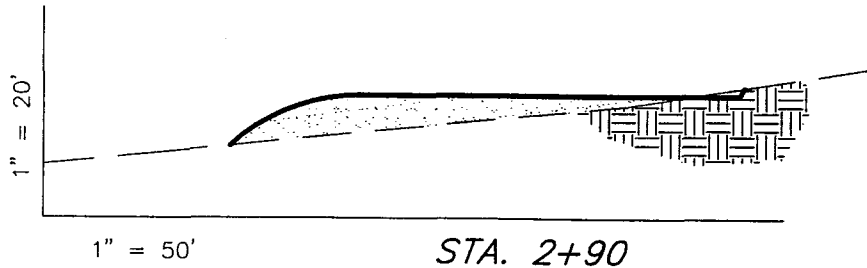
(435) 781-2501



# INLAND PRODUCTION COMPANY

## CROSS SECTIONS

### JONAH UNIT 16-15



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

#### ESTIMATED EARTHWORK QUANTITIES

(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,000	3,990	Topsoil is not included in Pad Cut	10
PIT	640	0		640
TOTALS	4,640	3,990	890	650

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

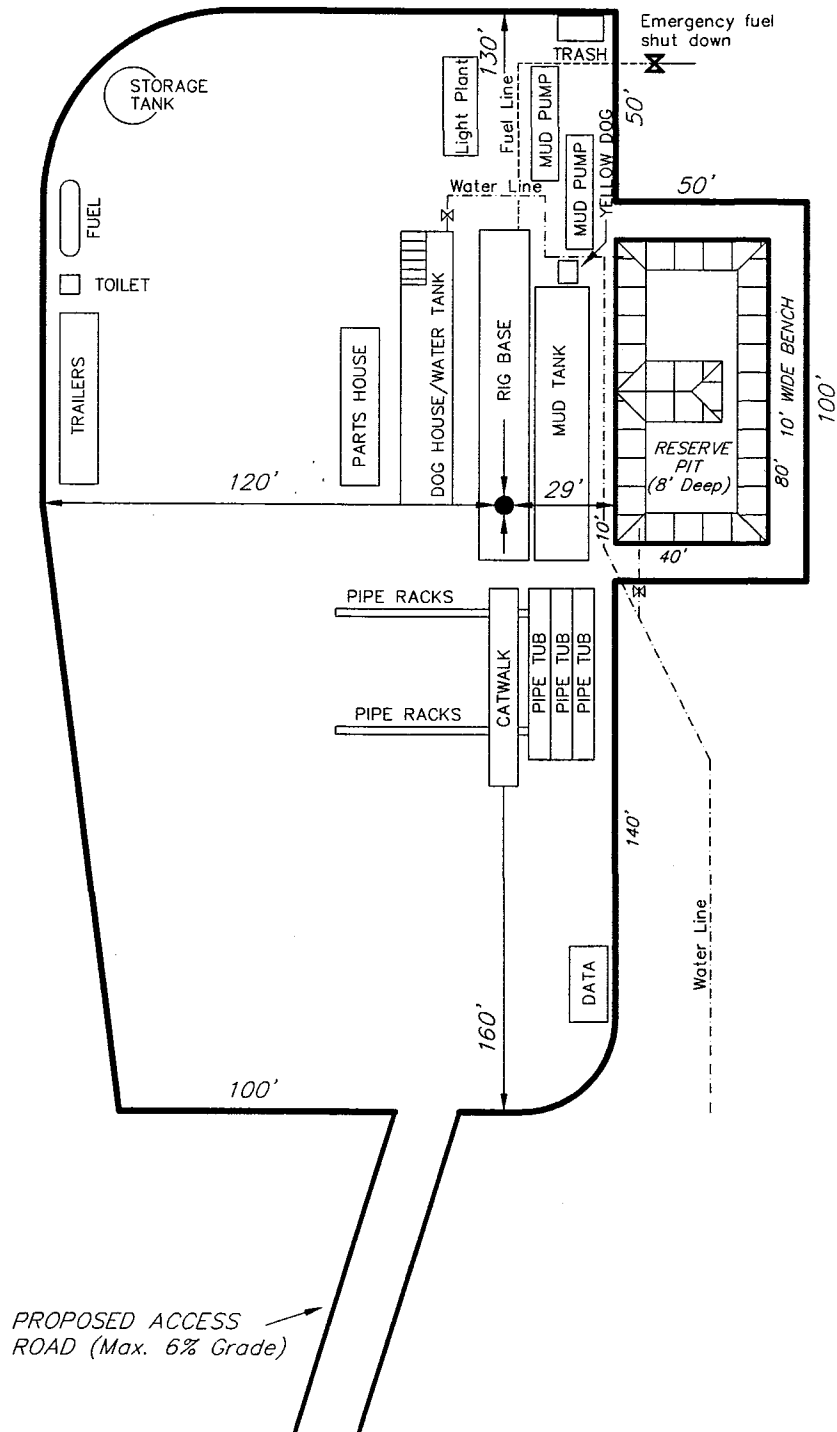
DATE: 8-24-04

**Tri State**  
Land Surveying, Inc.  
NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# INLAND PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### JONAH UNIT 16-15



SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 8-24-04

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

NORTH VERNAL AVE. VERNAL, UTAH 84078



**Jonah Unit 16-15**  
**SEC. 15, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 38 West 100 North Vernal, Utah 84078

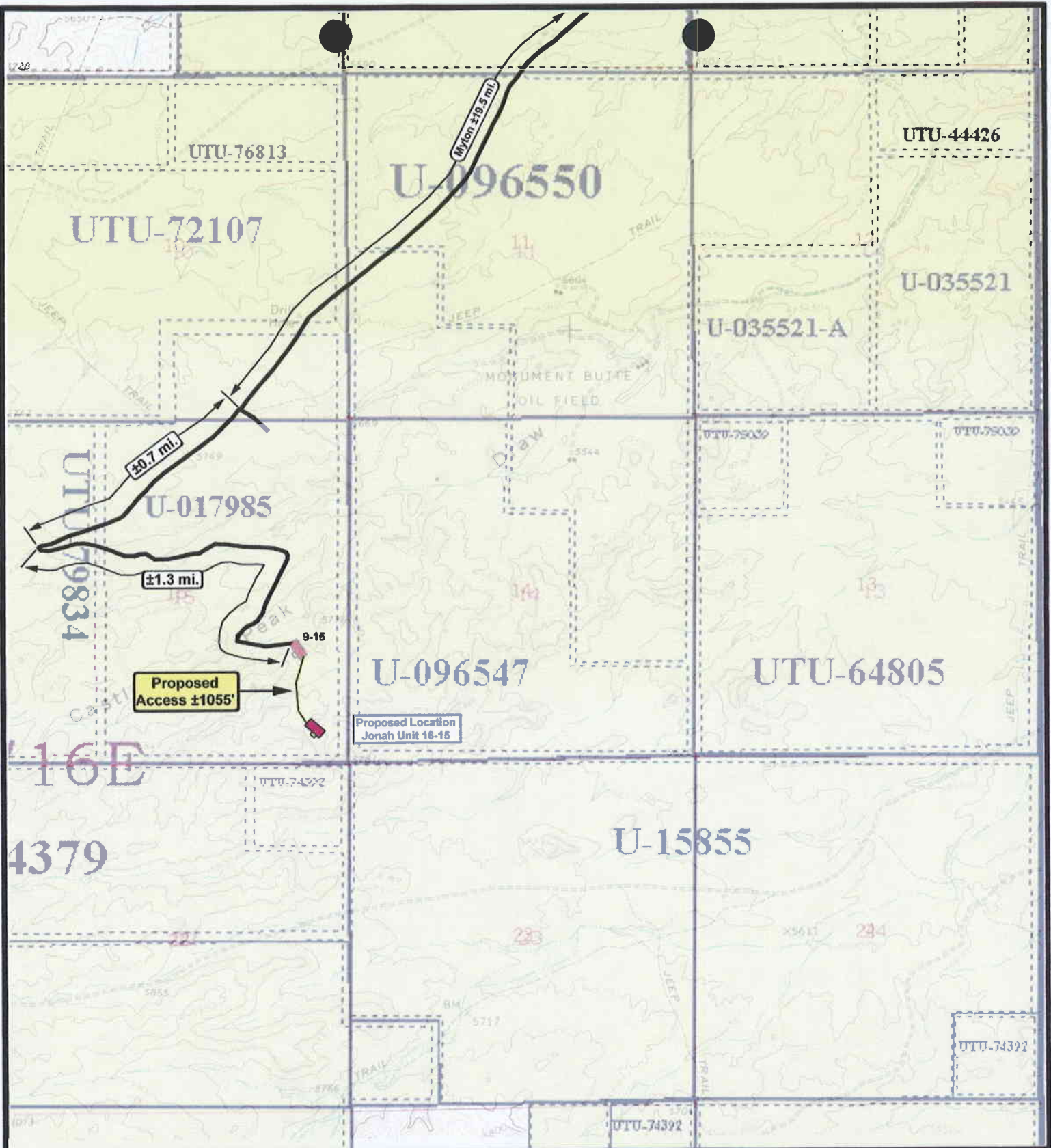
**SCALE:** 1" = 100,000'  
**DRAWN BY:** bgm  
**DATE:** 08-26-2004

**Legend**  
 — Existing Road  
 — Proposed Access

**TOPOGRAPHIC MAP**

**"A"**





**Jonah Unit 16-15**  
**SEC 15, T9S, R16E, S.L.B.&M.**



**Tri-State**  
**Land Surveying Inc.**  
 (435) 781-2501  
 38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: bgm

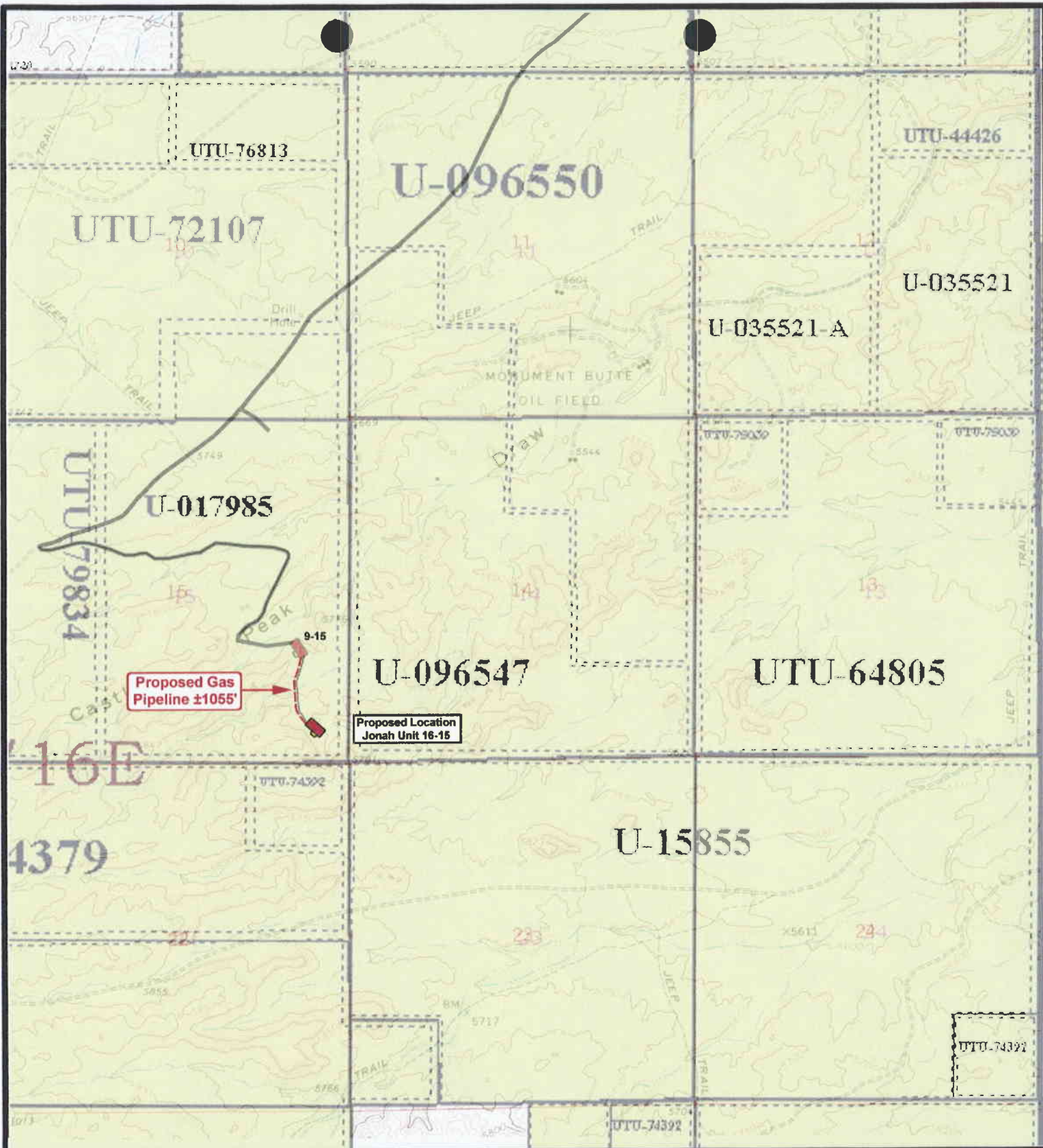
DATE: 08-26-2004

**Legend**

— Existing Road  
 — Proposed Access

TOPOGRAPHIC MAP

**"B"**



**Jonah Unit 16-15**  
**SEC 15, T9S, R16E, S.L.B.&M.**



**Tri-State**  
**Land Surveying Inc.**  
(435) 781-2501  
38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'  
DRAWN BY: bgm  
DATE: 08-26-2004

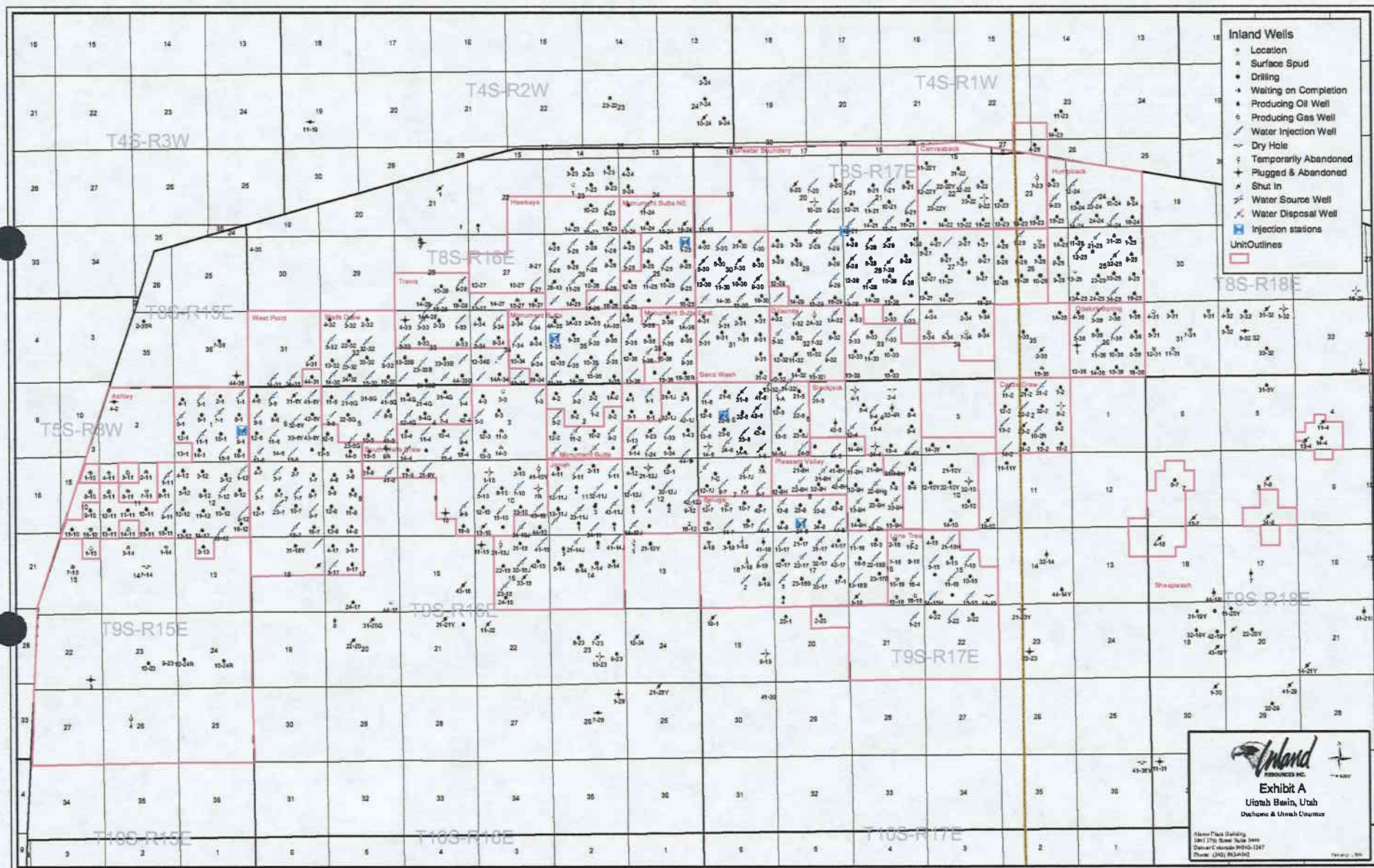
**Legend**

- Existing Road
- Proposed Access
- Proposed Gas Line

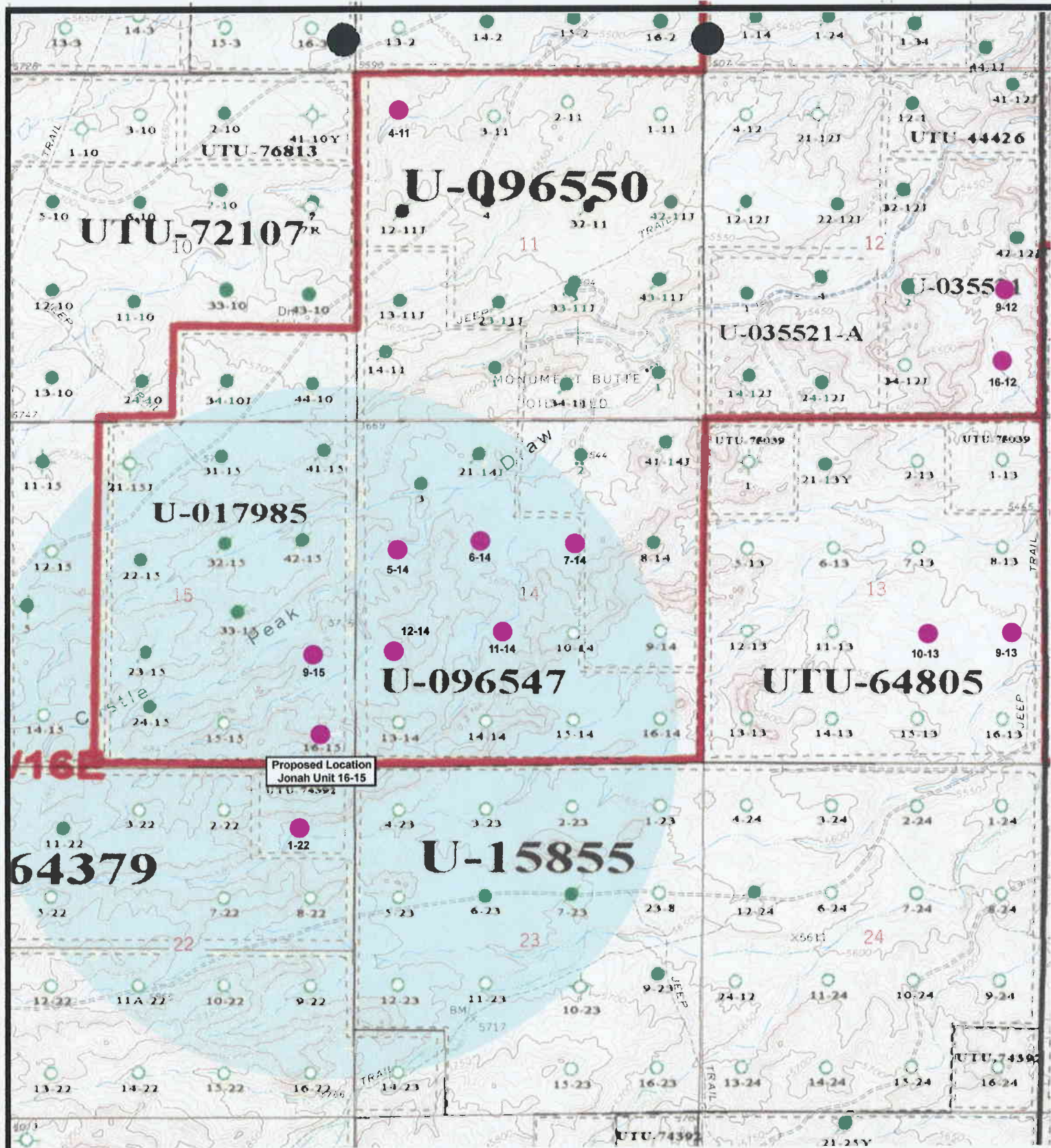
TOPOGRAPHIC MAP

**"C"**

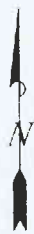








**Jonah Unit 16-15**  
**SEC. 15, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE:** 1" = 2000'  
**DRAWN BY:** bgm  
**DATE:** 08-26-2004

**Legend**

- Well Locations
- One Mile Radius

**Exhibit "B"**

## 2-M SYSTEM

Blowout Prevention Equipment Systems

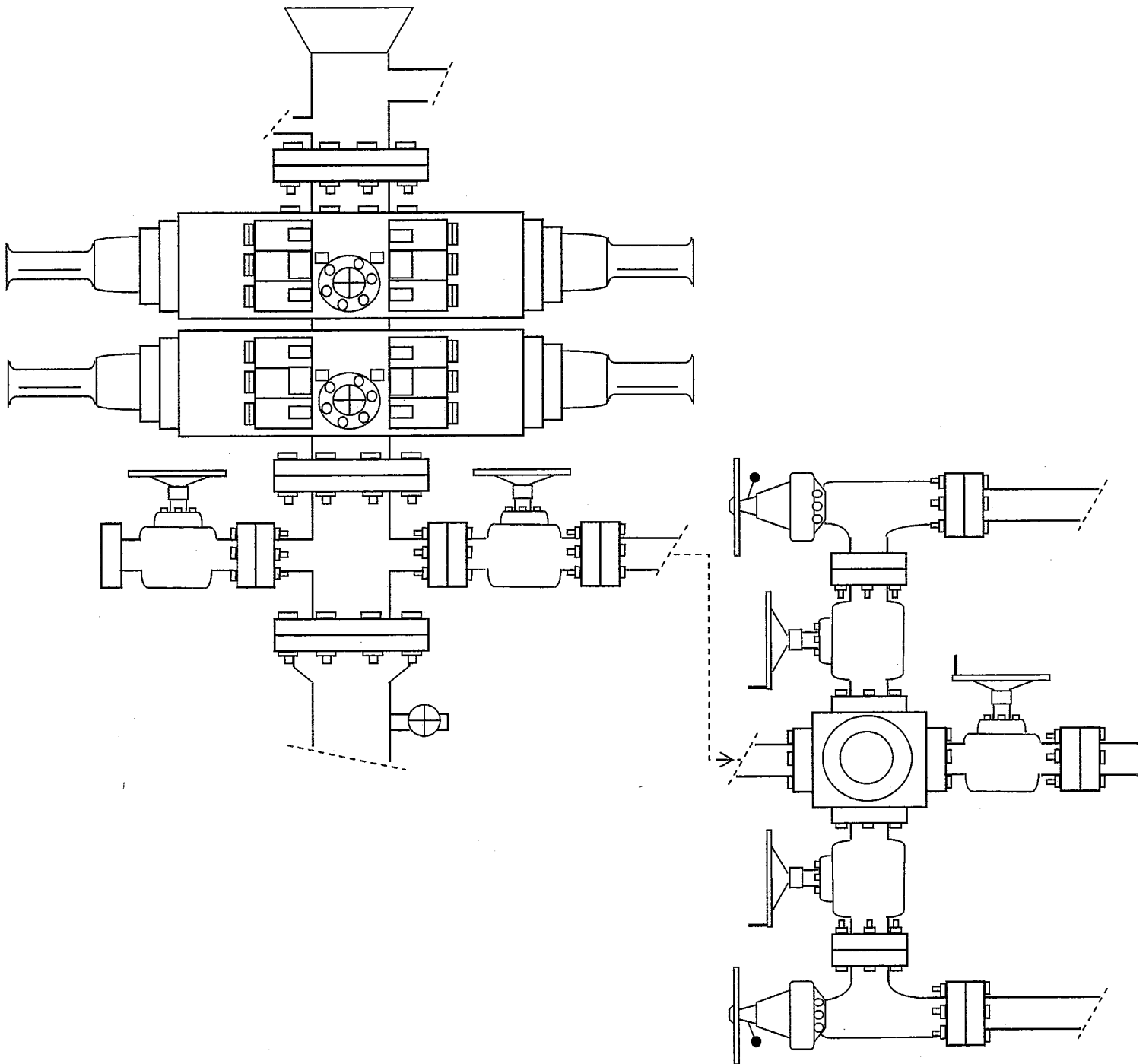


EXHIBIT C



CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 80-ACRE PARCEL  
NEAR CASTLE PEAK DRAW  
(T9S, R16E, SEC. 15),  
DUCHESNE COUNTY, UTAH

by

Andy Wakefield  
and  
Shari Silverman

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Corporation  
Route 3 Box 3630  
Myton, UT 84052

Prepared By:

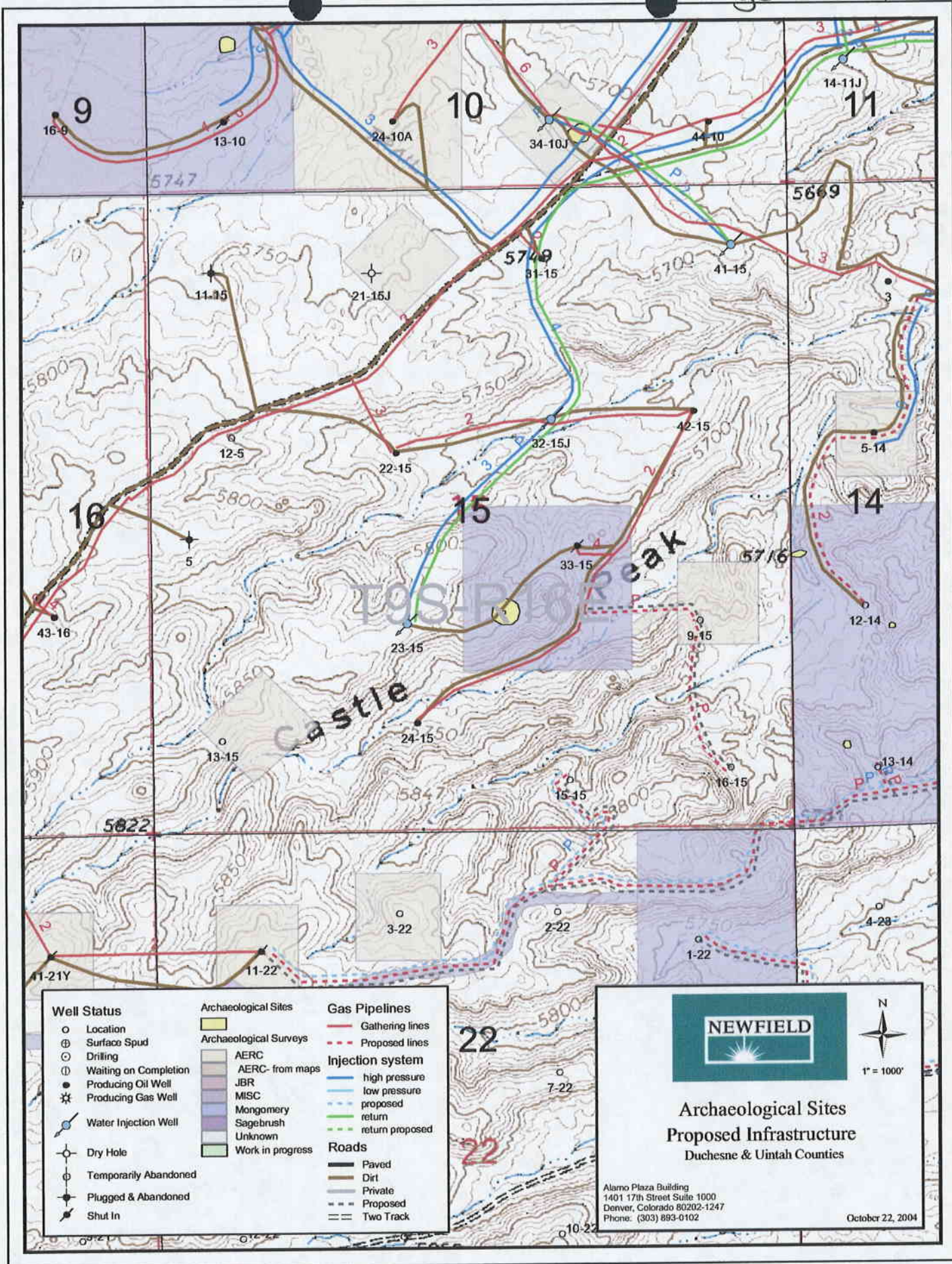
Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 04-348

January 12, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1479b



**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE AND UTAH COUNTIES, UTAH**

(Section 27 [excluding NE 1/4 & NW 1/4, NE 1/4 and NE 1/4, SE 1/4]; Section 28 [excluding NW 1/4 & SW 1/4, SW 1/4], Township 8 South, Range 18 East; SW 1/4, SW 1/4, Section 20, Township 8 South, Range 17 East; and NE 1/4, SW 1/4, & SE 1/4, SE 1/4, Section 15, Township 9 South, Range 16 East

**REPORT OF SURVEY**

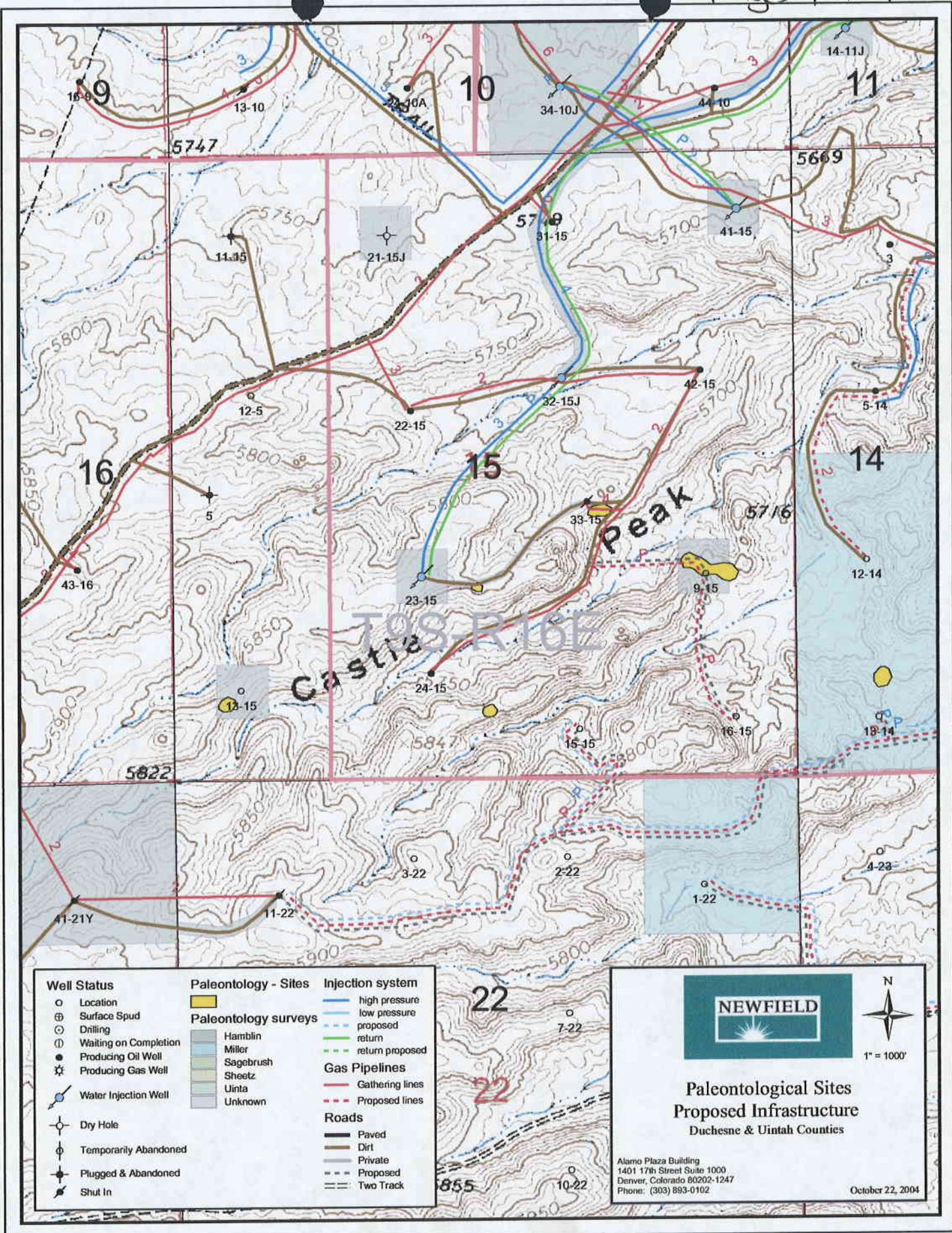
Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
November 11, 2004





**Well Status**

- Location
- ⊕ Surface Spud
- Drilling
- Ⓢ Waiting on Completion
- Producing Oil Well
- ⊗ Producing Gas Well
- ⦿ Water Injection Well
- ⊙ Dry Hole
- ⊖ Temporarily Abandoned
- ⊕ Plugged & Abandoned
- ⦿ Shut In

**Paleontology - Sites**

**Paleontology surveys**

- Hamblin
- Miller
- Sagebrush
- Sheetz
- Uinta
- Unknown

**Injection system**

- high pressure
- low pressure
- - - proposed
- return
- - - return proposed

**Gas Pipelines**

- Gathering lines
- - - Proposed lines

**Roads**

- Paved
- Dirt
- Private
- - - Proposed
- - - Two Track



**Paleontological Sites  
Proposed Infrastructure  
Duchesne & Uintah Counties**

Alamo Plaza Building  
1401 17th Street Suite 1000  
Denver, Colorado 80202-1247  
Phone: (303) 893-0102

October 22, 2004

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/21/2005

API NO. ASSIGNED: 43-013-32754

WELL NAME: JONAH FED 16-15-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

## PROPOSED LOCATION:

SESE 15 090S 160E

SURFACE: 0512 FSL 0535 FEL

BOTTOM: 0512 FSL 0535 FEL

DUCHESNE

MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-017985

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 40.02495

LONGITUDE: -110.0973

## RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. UTU0056 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
 (No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit JONAH (GREEN RIVER)

\_\_\_ R649-3-2. General

Siting: 460' From Qtr/Qtr & 920' Between Wells

\_\_\_ R649-3-3. Exception

☒ Drilling UnitBoard Cause No: 228-2Eff Date: 7-16-1993Siting: 460' fr ubary & 920' fr other wells.

\_\_\_ R649-3-11. Directional Drill

COMMENTS:

Sup. Separate R/W

STIPULATIONS:

1- Federal Approval





## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

## IN REPLY REFER TO:

3160

(UT-922)

January 24, 2005

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2005 Plan of Development Jonah Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2005 within the Jonah Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Green River)

43-013-32754	Jonah Federal 16-15-9-16 Sec 15 T09S R16E 0512 FSL 0535 FEL	
43-013-32753	Jonah Federal 15-15-9-16 Sec 15 T09S R16E 0421 FSL 1864 FEL	

Our records indicate the 15-15-9-16 is closer than 460 feet from the Jonah Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Jonah Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:1-24-05

**State of Utah****Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

MARY ANN WRIGHT  
*Acting Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

January 24, 2005

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Jonah Federal 16-15-9-16 Well, 512' FSL, 535' FEL, SE SE, Sec. 15,  
T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32754.

Sincerely,

A handwritten signature in dark ink, appearing to read "J.R. Baza".  
John R. Baza  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office



Operator: Newfield Production Company  
Well Name & Number Jonah Federal 16-15-9-16  
API Number: 43-013-32754  
Lease: UTU-017985

Location: SE SE Sec. 15 T. 9 South R. 16 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: JONAH FED 16-15-9-16

Api No: 43-013-32754 Lease Type: FEDERAL

Section 15 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 24

### **SPUDDED:**

Date 12/28/05

Time 2:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by TROY

Telephone # 1-435-823-6013

Date 12/28/2005 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3030**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2685**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	11492	43-013-32754	JONAH FEDERAL 16-15-9-16	SESE	15	9S	16E	DUCHESNE	12/28/05	1/5/06
WELL COMMENTS: <i>GRUV</i> <span style="float: right;">CONFIDENTIAL J</span>											
B	99999	14844	43-047-38162	FEDERAL 16-7-9-18	SESE	7	9S	18E	UINTAH	12/28/05	1/5/06
WELL COMMENTS: <i>GRUV Sundance Unit</i> <span style="float: right;">J</span>											
B	99999	14844	43-047-36160	FEDERAL 4-7-9-18	NWYW	7	9S	18E	UINTAH	12/30/05	1/5/06
WELL COMMENTS: <i>GRUV Sundance Unit</i> <span style="float: right;">J</span>											
B	99999	12391	43-013-32795	GREATER BOUNDARY 1A-3-9-17	NENE	3	9S	17E	DUCHESNE	12/31/05	1/5/06
WELL COMMENTS: <i>GRUV</i> <span style="float: right;">J</span>											
B	99999	14844	43-047-35765	FEDERAL 7-9-9-18	SWNE	9	9S	18E	UINTAH	01/03/06	1/5/06
WELL COMMENTS: <i>GRUV Sundance Unit</i> <span style="float: right;">J</span>											
B	99999	14844	43-047-35831	FEDERAL 15-31-8-18	SWSE	31	8S	18E	UINTAH	01/04/06	1/5/06
WELL COMMENTS: <i>GRUV Sundance Unit</i> <span style="float: right;">J</span>											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity group or add well
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

*Kim Kelle*  
Signature Kim Kelle

Production Clerk  
Title

January 4, 2006  
Date

RECEIVED

JAN 04 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Newfield Production Company

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
512 FSL 535 FEL  
SE/SE Section 15 T9S R16E

5. Lease Serial No.

UTU017985

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
SUNDANCE UNIT

8. Well Name and No.

JONAH FEDERAL 16-15-9-16

9. API Well No.

4301332754

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12-28-2005 MIRU Ross Rig # 24. Spud well @ 2:00 PM. Drill 325' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 327.01' KB On 1/1/2006 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct  
Name (Printed/ Typed)  
Troy Zufelt

Signature

Title  
Drilling Foreman

Date  
01/04/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_  
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title  
Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**JAN 09 2006**

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 327.01

LAST CASING 8 5/8" set @ 327.01  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 325' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Jonah Federal 16-15-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 24

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 43.68'						
		WHI - 92 csg head			8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	315.16	
		GUIDE shoe			8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			317.01	
TOTAL LENGTH OF STRING		317.01	7	LESS CUT OFF PIECE			2	
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12	
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			327.01	
TOTAL		315.16	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		315.16	7					
TIMING		1ST STAGE						
BEGIN RUN CSG.		Spud	12/28/2005	2:00 PM	GOOD CIRC THRU JOB			Yes
CSG. IN HOLE			12/30/2005	2:00 PM	Bbls CMT CIRC TO SURFACE			5
BEGIN CIRC			1/1/2006	12:53 AM	RECIPROCATED PIPE FOR			N/A
BEGIN PUMP CMT			1/1/2006	1:03 PM				
BEGIN DSPL. CMT			1/1/2006	1:16 PM	BUMPED PLUG TO			800 PSI
PLUG DOWN			1/1/2006	1:23 PM				
CEMENT USED		CEMENT COMPANY- B. J.						
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3								

COMPANY REPRESENTATIVE Troy Zufelt DATE 1/1/2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

Other Instructions on reverse side

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Newfield Production Company

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
512 FSL 535 FEL  
SE/SE Section 15 T9S R16E

5. Lease Serial No.

UTU017985

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

SUNDANCE UNIT

8. Well Name and No.

JONAH FEDERAL 16-15-9-16

9. API Well No.

4301332754

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/4/06 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5835'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 136 jt's of 5.5 J-55, 15.5# csgn. Set @ 5819.88/ KB. Cement with 350 sks cement mixed @ 11.0 ppg & 3.43 yld. The 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 22 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 82,000 #'s tension. Release rig @ 7:00 pm 1/9/06.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Don Bastian

Title

Drilling Foreman

Signature

Date

01/10/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

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(Instructions on reverse)

JAN 13 2006

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5817.88

Flt cllr @ 5774.35

LAST CASING 8 5/8" SET AT 301'

OPERATOR Newfield Production Company

DATUM 12' KB

WELL Jonah 16-15-9-16

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE

CONTRACTOR & RIG # NDSI rig #2

TD DRILLER 5835' Loggers Depth 5838'

HOLE SIZE 7 7/8"

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>Short jt</b> 3857' (5.88')					
<b>135</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	5774.35
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	44.28
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5819.88
TOTAL LENGTH OF STRING		5819.88	136	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		173.79	4	CASING SET DEPTH			<b>5817.88</b>
TOTAL		<b>5978.42</b>	.140	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		5978.42	140				
TIMING		1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB			Yes
BEGIN RUN CSG.		7:30am	1/9/2006	Bbls CMT CIRC TO SURFACE			22
CSG. IN HOLE		10:30am	1/9/2006	RECIPROCATED PIPE FOR			THRUSTROKE
BEGIN CIRC		10:30am	1/9/2006	DID BACK PRES. VALVE HOLD ?			Yes
BEGIN PUMP CMT		1:25pm	1/9/2006	BUMPED PLUG TO			2330 PSI
BEGIN DSPL. CMT		2:17pm	1/9/2006				
PLUG DOWN		<b>2:41pm</b>	<b>1/9/2006</b>				

CEMENT USED		CEMENT COMPANY- B. J.
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	350	Prem-lite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake
		mixed @ 11.0 ppg W / 3.43 cf/sk yield
2	450	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.		

COMPANY REPRESENTATIVE Don Bastian

DATE January 9 2006

JAN 13 2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
512 FSL 535 FEL  
SE/SE Section 15 T9S R16E

5. Lease Serial No.

UTU017985

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 16-15-9-16

9. API Well No.

4301332754

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

02.03/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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Office

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Instructions and Notes

**FEB 06 2006**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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☒ Oil Well ☐ Gas Well ☐ Other

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512 FSL 535 FEL

SE/SE Section 15 T9S R16E

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JONAH UNIT

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JONAH FEDERAL 16-15-9-16

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Variance _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

2-21-06  
CHD

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Mandie Crozier

Title

Regulatory Specialist

Signature

Date

02/03/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date

Federal Approval Of This  
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Date

By:

2/7/06  
D. Stuckert

FEB 06 2006

RECEIVED

JAN 21 2005

CLIN VERNAL, UTAH

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-017985

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Jonah (GR) SR

8. Lease Name and Well No.

Jonah Federal 16-15-9-16

9. API Well No.

301332754

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

SE/SE Sec. 15, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SE/SE 512' FSL 535' FEL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

Approximatley 21.5 miles south of Myton, Utah

15. Distance from proposed\*

location to nearest

property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 512' f/lse, 512' f/unit

16. No. of Acres in lease

560.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*

to nearest well, drilling, completed,

applied for, on this lease, ft.

Approx. 1,420'

19. Proposed Depth

5915'

20. BLM/BIA Bond No. on file

UTU0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5704' GL

22. Approximate date work will start\*

1st Quarter 2005

23. Estimated duration

Approximately seven (7) days from spud to rig release.

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Mandie Crozier

Name (Printed/Typed)

Mandie Crozier

Accepted by the

Utah Division of  
Oil, Gas and Mining

Date

1/20/05

Title

Regulatory Specialist

Approved by (Signature)

Peter K. Sokolusky

Name (Printed/Typed)

Peter K. Sokolusky

Date

Dec 2 2005

Title

Assistant Field Manager  
General Resources

Office

Vernal Field Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

RECEIVED

DEC 12 2005

DIV. OF OIL, GAS &amp; MINING

0320000000

NO 1105

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Operator/Company: Newfield Production Co.  
Well Name/Number: Jonah Federal 16-15-9-16  
API Number: 43-013-32754  
Location: SESE Sec Tship Rng.: 15, T9S, R16E  
Lease Number: UTU-017985  
Agreement Name (If Applicable): N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware that fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**Please submit an electronic copy of all logs run on this well in LAS format. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF or other).**

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Michael Lee (435) 828-7875  
Petroleum Engineer

Matt Baker (435) 828-4470  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

Company/Operator: Newfield Production Company  
API Number 43-013-32754  
Well Name & Number: West Point Federal 16-15-9-16  
Lease Number: U- 017985  
Location: SESE Sec. 15 T. 9 S. R. 16 E.  
Surface Ownership: BLM  
Date NOS Received: None  
Date APD Received: Jan. 21, 2005

This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

Excavation of the Uinta Formation bedrock (in-place, unweathered sandstone, mudstone and shale) as part of the construction of roads and any connected oil and gas lease sundry activities that occurs within the SENE of Sec. 15, T.9S., R.16E. (SLB&M) shall be monitored by a professional paleontologist acceptable to the Vernal Field Office and Utah State Office-BLM at the lessee's expense and a report of all mitigation-curation of vertebrate and other scientifically important fossils shall be made to the Vernal Field Office paleontology specialist.

4 to 6 inches of topsoil shall be stripped from the locations and placed as shown on the cut sheet. The topsoil shall be respread over the entire location as soon as completion operations have been finished and recontouring is complete. At this point the production equipment can be set. The areas of the location not needed for production operations, including the reserve pits, shall be seeded with crested wheatgrass (variety Hycrest) at a rate of 12 lbs per acre. The 12 lb/acre rate is considering pure live seed. The interim seeding shall be done by either drilling the seed or by broadcasting the seed and dragging it with a spike tooth harrow.

The pipeline trench for the gas lines shall be dug in the borrow ditch of the road and the trench material side cast into the existing vegetation. When backfilling the trenches, care should be taken to disturb as little of the vegetation as possible and thus allowing the existing plants to reestablish on their own, however, this area should also be seeded with crested wheatgrass at the 12 lb/acre rate to ensure vegetation establishment and to keep invasive weeds to a minimum. All seeding of the pipelines shall be completed using a seed drill.

No pipeline construction will be allowed when soils are muddy and rutting of soils becomes apparent from the use of vehicles. If rutting occurs, operations must cease until soils are dry or frozen.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

512 FSL 535 FEL

SE/SE Section 15 T9S R16E

5. Lease Serial No.

UTU017985

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 16-15-9-16

9. API Well No.

4301332754

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 01/18/06 - 02/02/06

Subject well had completion procedures initiated in the Green River formation on 01-18-06 without the use of a service rig over the well. A cement bond log was run and a total of six Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (5400'-5410'); Stage #2 (4985'-4994'); Stage #3(4808'-4814'); Stage #4 (4672'-4680'); Stage #5(4162'-4168'),(4032'-4044'); Stage #6 (3678'-3694'). All perforations, were 4 JSPF.composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 01-27-2006. Bridge plugs were drilled out and well was cleaned to 5772'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 02-08-2006.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)

Lana Nebeker

Signature

Title

Production Clerk

Date

02/21/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**FEB 22 2006**

DIV. OF OIL, GAS & MINING

**CONFIDENTIAL**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

FORM APPROVED

OMB NO. 1004-0137

Expires: February 28, 1995

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT****WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*****1a. TYPE OF WORK**OIL  
WELL ☒GAS  
WELL ☐DRY ☐

Other \_\_\_\_\_

**1b. TYPE OF WELL**NEW  
WELL ☒WORK  
OVER ☐DEEPEN ☐PLUG  
BACK ☐DIFF  
RESVR. ☐

Other \_\_\_\_\_

**2. NAME OF OPERATOR**

Newfield Exploration Company

**3. ADDRESS AND TELEPHONE NO.**

1401 17th St. Suite 1000 Denver, CO 80202

**4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\***

At Surface

512' FSL &amp; 535' FEL (SE/SE) Sec. 15, T9S, R16E

At top prod. Interval reported below

At total depth

**14. API NO.**

43-013-32754

**DATE ISSUED**

1/24/05

**12. COUNTY OR PARISH**

Duchesne

**13. STATE**

UT

**15. DATE SPUDDED**

12/28/05

**16. DATE T.D. REACHED**

1/8/06

**17. DATE COMPL. (Ready to prod.)**

2/2/06

**18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\***

5704' GL

5716' KB

**19. ELEV. CASINGHEAD****20. TOTAL DEPTH, MD & TVD**

5835'

**21. PLUG BACK T.D., MD & TVD**

5772'

**22. IF MULTIPLE COMPL.,**

HOW MANY\*

**23. INTERVALS**

DRILLED BY

-----&gt;

**ROTARY TOOLS**

X

**CABLE TOOLS****24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\***

Green River 3678'-5410'

**25. WAS DIRECTIONAL SURVEY MADE**

No

**26. TYPE ELECTRIC AND OTHER LOGS RUN**

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

**27. WAS WELL CORED**

No

**23. CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	327'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5818'	7-7/8"	350 sx Premlite II and 450 sx 50/50 Poz	

**29. LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5490'	TA @ 5390'

**31. PERFORATION RECORD (Interval, size and number)**

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP1) 5400'-5410'	.46"	4/40	5400'-5410'	Frac w/ 14,789# 20/40 sand in 255 bbls fluid
(A3) 4985'-4994'	.46"	4/36	4985'-4994'	Frac w/ 18,508# 20/40 sand in 284 bbls fluid
(B2) 4808'-4814'	.46"	4/24	4808'-4814'	Frac w/ 23,613# 20/40 sand in 319 bbls fluid
(C) 4672'-4680'	.46"	4/32	4672'-4680'	Frac w/ 61,018# 20/40 sand in 480 bbls fluid
(GB6&PB8) 4032'-44', 4162'-68'	.46"	4/72	4032'-4168'	Frac w/ 29,328# 20/40 sand in 330 bbls fluid
(GG) 3678'-3694'	.46"	4/64	3678'-3694'	Frac w/ 48,534# 20/40 sand in 390 bbls fluid

**33.\*****PRODUCTION**

DATE FIRST PRODUCTION 2/2/06		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 14' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBLs. 14	GAS--MCF. 85	WATER--BBL. 6	GAS-OIL RATIO 6071
FLOW, TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

**34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)**

Sold &amp; Used for Fuel

**TEST WITNESSED BY****35. LIST OF ATTACHMENTS**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

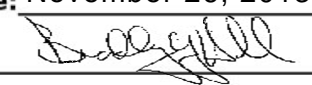
SIGNED

Regulatory Specialist

MAR 10 2006 3/9/2006

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Jonah Federal 16-15-9-16	Garden Gulch Mkr	3490'	
				Garden Gulch 1	3700'	
				Garden Gulch 2	3810'	
				Point 3 Mkr	4082'	
				X Mkr	4327'	
				Y-Mkr	4360'	
				Douglas Creek Mkr	4479'	
				BiCarbonate Mkr	4715'	
				B Limestone Mkr	4824'	
				Castle Peak	5326'	
				Basal Carbonate	5784'	
				Total Depth (LOGGERS)	5838'	

MAR 10 2006

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-017985
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> JONAH FED 16-15-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0512 FSL 0535 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 15 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013327540000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/15/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p>The subject well has been converted from a producing oil well to an injection well on 11/15/2013. 10/29/2013 Cement squeeze on perforations 3678-3694' w/ 100 sxs Class G cement. On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.</p>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto		<b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> November 26, 2013 <b>By:</b> 
<b>PHONE NUMBER</b> 435 646-4874		
<b>TITLE</b> Water Services Technician		
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/25/2013



# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 11/15/13 Time 8:45 am pm  
Test Conducted by: EVERETT LINAUGH  
Others Present: \_\_\_\_\_

Well: JONAH FEDERAL 16-15-9-16 Field: MONUMENT BUTTE  
Well Location: SESE SEC 15 T9S R16E API No: 43-013-32754  
Duchesne County, UT

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1068</u>	psig
5	<u>1067</u>	psig
10	<u>1066</u>	psig
15	<u>1065</u>	psig
20	<u>1064</u>	psig
25	<u>1063</u>	psig
30 min	<u>1062</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 2 psig

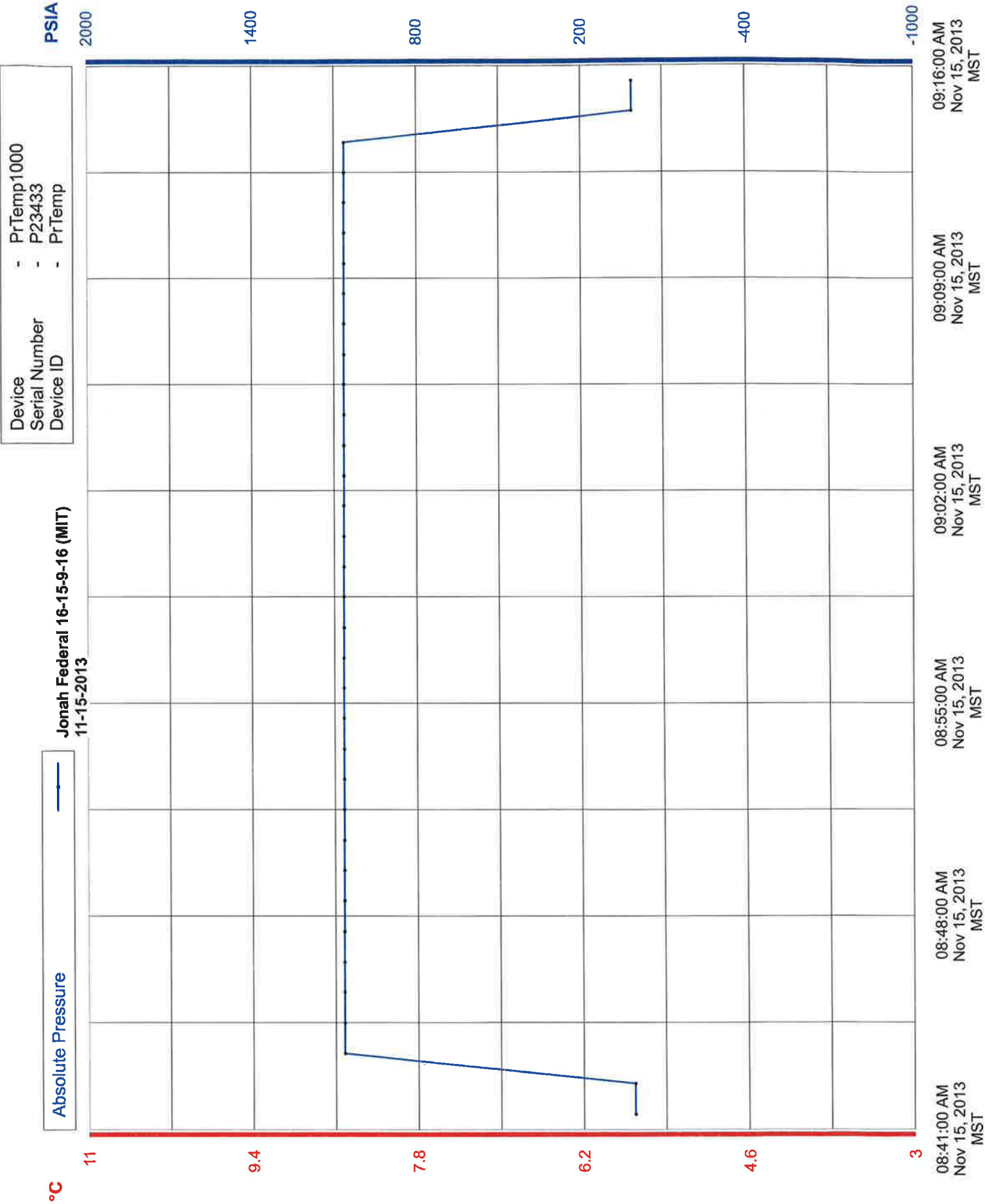
Result:

Pass

Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Everett Linaugh



**Daily Activity Report****Format For Sundry****JONAH 16-15-9-16****9/1/2013 To 1/30/2014****10/25/2013 Day: 1****Conversion**

NC #3 on 10/25/2013 - MIRUSU, LD rods. - 5:30AM-6:00AM c/ travel. Road Rig to location. MIRUSU. Pump 60 bbls water @ 250 down csg. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Soft seat rod pump. Fill tbg w/ 15 bbls water & pressure test to 3000 psi. Good test. TOH & LD 173- 3/4 4per rods. Hydraulic system broke down on rig. Crew did maintance on rig. SDFD @ 5:00PM. 5:00-5:30PM c/ travel. - 5:30AM-6:00AM c/ travel. Road Rig to location. MIRUSU. Pump 60 bbls water @ 250 down csg. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Soft seat rod pump. Fill tbg w/ 15 bbls water & pressure test to 3000 psi. Good test. TOH & LD 173- 3/4 4per rods. Hydraulic system broke down on rig. Crew did maintance on rig. SDFD @ 5:00PM. 5:00-5:30PM c/ travel. - 5:30AM-6:00AM c/ travel. Road Rig to location. MIRUSU. Pump 60 bbls water @ 250 down csg. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Soft seat rod pump. Fill tbg w/ 15 bbls water & pressure test to 3000 psi. Good test. TOH & LD 173- 3/4 4per rods. Hydraulic system broke down on rig. Crew did maintance on rig. SDFD @ 5:00PM. 5:00-5:30PM c/ travel. - 5:30AM-6:00AM c/ travel. Road Rig to location. MIRUSU. Pump 60 bbls water @ 250 down csg. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Soft seat rod pump. Fill tbg w/ 15 bbls water & pressure test to 3000 psi. Good test. TOH & LD 173- 3/4 4per rods. Hydraulic system broke down on rig. Crew did maintance on rig. SDFD @ 5:00PM. 5:00-5:30PM c/ travel. - 5:30AM-6:00AM c/ travel. Road Rig to location. MIRUSU. Pump 60 bbls water @ 250 down csg. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Soft seat rod pump. Fill tbg w/ 15 bbls water & pressure test to 3000 psi. Good test. TOH & LD 173- 3/4 4per rods. Hydraulic system broke down on rig. Crew did maintance on rig. SDFD @ 5:00PM. 5:00-5:30PM c/ travel. **Finalized**  
**Daily Cost:** \$0  
**Cumulative Cost:** \$8,818

**10/28/2013 Day: 2****Conversion**

NC #3 on 10/28/2013 - L/D Rod String, N/D W/H-D, N/U BOPs, R/U Tbg Eqp, Flush, TOOH W/ Tbg, RIH W/ Pkr & RBP, Psr Tst RBP. - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Repair Rig, Repair Hydraulic System, 10:00AM OWU, TOOH & L/D Total Of 1 1/2X22' Polish Rod, 1-2'3/4 Pony, 212-3/4 4 Pers(34 Bad Do To Wear On Tbg), 6-1 1/2 Wt Bars W/ Stabilizers Btwn, & 1 Rod Pmp, R/U H/Oiler To Tbg & Flush Tbg W/ 40BW, Service Rig, Change Oil & Filters, N/D W/H-D, N/U BOPs, R/U RIg Flr, R/U Tbg Eqp, Release T/A, TOOH W/ Tbg-170Jts 2 7/8 J-55 Tbg, T/A, 1jt, S/N, 2jts, & N/C, L/D T/A, S/N, & N/C, P/U & RIH W/ Weatherford RBP, & Pkr, RIH To 3750', Set RBP, POOH W/ 1jt, Set Pkr @ 3720, Fill Tbg W/ 20BW, Psr Tst RBP To 1500psi For 15 Min, Good Tst, POOH W/ PKR To 3611, Set Pkr, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Repair Rig, Repair Hydraulic System, 10:00AM OWU, TOOH & L/D Total Of 1 1/2X22' Polish Rod, 1-2'3/4 Pony, 212-3/4 4 Pers(34 Bad Do To Wear On Tbg), 6-1 1/2 Wt Bars W/ Stabilizers Btwn, & 1 Rod Pmp, R/U H/Oiler To Tbg & Flush Tbg W/ 40BW, Service Rig, Change Oil & Filters, N/D W/H-D, N/U BOPs, R/U RIg Flr, R/U Tbg Eqp, Release T/A, TOOH W/ Tbg-170Jts 2 7/8 J-55 Tbg, T/A, 1jt, S/N, 2jts, & N/C, L/D T/A, S/N, & N/C, P/U & RIH W/ Weatherford RBP, & Pkr, RIH To 3750', Set RBP, POOH W/ 1jt, Set Pkr @ 3720, Fill Tbg W/ 20BW, Psr Tst RBP To 1500psi For 15 Min, Good Tst, POOH W/ PKR To 3611, Set Pkr, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Repair Rig, Repair Hydraulic System, 10:00AM OWU, TOOH & L/D Total Of 1 1/2X22' Polish Rod, 1-2'3/4 Pony, 212-3/4 4 Pers(34 Bad Do To Wear On Tbg), 6-1 1/2 Wt Bars W/ Stabilizers Btwn, & 1 Rod Pmp, R/U H/Oiler To Tbg & Flush Tbg W/ 40BW, Service Rig, Change Oil & Filters, N/D W/H-D, N/U BOPs, R/U RIg Flr, R/U Tbg Eqp, Release

T/A, TOO H W/ Tbg-170Jts 2 7/8 J-55 Tbg, T/A, 1jt, S/N, 2jts, & N/C, L/D T/A, S/N, & N/C, P/U & RIH W/ Weatherford RBP, & Pkr, RIH To 3750' , Set RBP, POOH W/ 1jt, Set Pkr @ 3720, Fill Tbg W/ 20BW, Psr Tst RBP To 1500psi For 15 Min, Good Tst, POOH W/ PKR To 3611, Set Pkr, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Repair Rig, Repair Hydraulic System, 10:00AM OWU, TOO H & L/D Total Of 1 1/2X22' Polish Rod, 1-2'3/4 Pony, 212-3/4 4 Pers(34 Bad Do To Wear On Tbg), 6-1 1/2 Wt Bars W/ Stabilizers Btwn, & 1 Rod Pmp, R/U H/Oiler To Tbg & Flush Tbg W/ 40BW, Service Rig, Change Oil & Filters, N/D W/H-D, N/U BOPs, R/U RIg Flr, R/U Tbg Eqp, Release T/A, TOO H W/ Tbg-170Jts 2 7/8 J-55 Tbg, T/A, 1jt, S/N, 2jts, & N/C, L/D T/A, S/N, & N/C, P/U & RIH W/ Weatherford RBP, & Pkr, RIH To 3750' , Set RBP, POOH W/ 1jt, Set Pkr @ 3720, Fill Tbg W/ 20BW, Psr Tst RBP To 1500psi For 15 Min, Good Tst, POOH W/ PKR To 3611, Set Pkr, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Repair Rig, Repair Hydraulic System, 10:00AM OWU, TOO H & L/D Total Of 1 1/2X22' Polish Rod, 1-2'3/4 Pony, 212-3/4 4 Pers(34 Bad Do To Wear On Tbg), 6-1 1/2 Wt Bars W/ Stabilizers Btwn, & 1 Rod Pmp, R/U H/Oiler To Tbg & Flush Tbg W/ 40BW, Service Rig, Change Oil & Filters, N/D W/H-D, N/U BOPs, R/U RIg Flr, R/U Tbg Eqp, Release T/A, TOO H W/ Tbg-170Jts 2 7/8 J-55 Tbg, T/A, 1jt, S/N, 2jts, & N/C, L/D T/A, S/N, & N/C, P/U & RIH W/ Weatherford RBP, & Pkr, RIH To 3750' , Set RBP, POOH W/ 1jt, Set Pkr @ 3720, Fill Tbg W/ 20BW, Psr Tst RBP To 1500psi For 15 Min, Good Tst, POOH W/ PKR To 3611, Set Pkr, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl **Finalized**  
**Daily Cost:** \$0  
**Cumulative Cost:** \$16,725

**10/29/2013 Day: 3**

**Conversion**

NC #3 on 10/29/2013 - Get injectio rate, Wait on cement. - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, Get Injection Rate, Pmp 50BW @ 3bpm W/ No Psr, Fill Csg, W/ 40BW, Psr Csg to 1300psi & Psr Fell To 0psi, Release Pkr & Reset, Pmp 60BW W/ No Psr, Release Pkr & TOO H, Found Hole In Tbg Jt #166, TOO H & L/D Pkr, P/U N/C & RIH W/ 40jts Tbg, Dump 2bags Of Sand, Wait 30min For Sand To Fall To Plg, TOO H W/ Tbg, P/U & RIH W/ CICR, & S/N, Set CICR @ 3611', R/U H/Oiler To Tbg, Fill W/ 10BWPs, Psr Tst Tbg To 3000psi(Good Tst), Sting Out Of CICR, R/U H/Oiler To Csg, Fill W/ 40BW, Psr Tst CICR & Csg To 1500psi(Good Tst), Sting Back Into CICR, R/D H/Oiler, Was Not Stung In All the Way, R/U Rig Pmp, Circulate Into CICR, Circulate Hole Clean, R/D Rig Pmp, R/U ProPetro To Pmp Squeeze, Pmp 100sx G Grd Cement=20bbls, Displace W/20.5BW, Final Psr Held @ 1800psi, Sting Out Of CICR, Leave 1/2bbl Cement On Top Of CICR, L/D 1jt, Cicurlate Cement Out Of Tbg, R/D & Release ProPetro, TOO H W/ Stinger & L/D, SWI, Winterize Rig Pmp, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, Get Injection Rate, Pmp 50BW @ 3bpm W/ No Psr, Fill Csg, W/ 40BW, Psr Csg to 1300psi & Psr Fell To 0psi, Release Pkr & Reset, Pmp 60BW W/ No Psr, Release Pkr & TOO H, Found Hole In Tbg Jt #166, TOO H & L/D Pkr, P/U N/C & RIH W/ 40jts Tbg, Dump 2bags Of Sand, Wait 30min For Sand To Fall To Plg, TOO H W/ Tbg, P/U & RIH W/ CICR, & S/N, Set CICR @ 3611', R/U H/Oiler To Tbg, Fill W/ 10BWPs, Psr Tst Tbg To 3000psi(Good Tst), Sting Out Of CICR, R/U H/Oiler To Csg, Fill W/ 40BW, Psr Tst CICR & Csg To 1500psi(Good Tst), Sting Back Into CICR, R/D H/Oiler, Was Not Stung In All the Way, R/U Rig Pmp, Circulate Into CICR, Circulate Hole Clean, R/D Rig Pmp, R/U ProPetro To Pmp Squeeze, Pmp 100sx G Grd Cement=20bbls, Displace W/20.5BW, Final Psr Held @ 1800psi, Sting Out Of CICR, Leave 1/2bbl Cement On Top Of CICR, L/D 1jt, Cicurlate Cement Out Of Tbg, R/D & Release ProPetro, TOO H W/ Stinger & L/D, SWI, Winterize Rig Pmp, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, Get Injection Rate, Pmp 50BW @ 3bpm W/ No Psr, Fill Csg, W/ 40BW, Psr Csg to 1300psi & Psr Fell To 0psi, Release Pkr & Reset, Pmp 60BW W/ No Psr, Release Pkr & TOO H, Found Hole In Tbg Jt #166, TOO H & L/D Pkr, P/U N/C & RIH W/ 40jts Tbg, Dump 2bags Of Sand, Wait 30min For Sand To Fall To Plg, TOO H W/ Tbg, P/U & RIH W/ CICR, & S/N, Set CICR @ 3611', R/U H/Oiler To Tbg, Fill W/ 10BWPs, Psr Tst Tbg To 3000psi(Good Tst), Sting Out Of CICR, R/U H/Oiler To Csg, Fill W/ 40BW, Psr Tst CICR & Csg To 1500psi(Good Tst), Sting Back Into CICR, R/D H/Oiler, Was Not Stung In All the Way, R/U Rig Pmp, Circulate Into CICR, Circulate Hole Clean, R/D Rig Pmp,

R/U ProPetro To Pmp Squeeze, Pmp 100sx G Grd Cement=20bbls, Displace W/20.5BW, Final Psr Held @ 1800psi, Sting Out Of CICR, Leave 1/2bbl Cement On Top Of CICR, L/D 1jt, Ciculate Cement Out Of Tbg, R/D & Release ProPetro, TOO H W/ Stinger & L/D, SWI, Winterize Rig Pmp, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, Get Injection Rate, Pmp 50BW @ 3bpm W/ No Psr, Fill Csg, W/ 40BW, Psr Csg to 1300psi & Psr Fell To Opsi, Release Pkr & Reset, Pmp 60BW W/ No Psr, Release Pkr & TOO H, Found Hole In Tbg Jt #166, TOO H & L/D Pkr, P/U N/C & RIH W/ 40jts Tbg, Dump 2bags Of Sand, Wait 30min For Sand To Fall To Plg, TOO H W/ Tbg, P/U & RIH W/ CICR, & S/N, Set CICR @ 3611', R/U H/Oiler To Tbg, Fill W/ 10BWPs, Psr Tst Tbg To 3000psi(Good Tst), Sting Out Of CICR, R/U H/Oiler To Csg, Fill W/ 40BW, Psr Tst CICR & Csg To 1500psi(Good Tst), Sting Back Into CICR, R/D H/Oiler, Was Not Stung In All the Way, R/U Rig Pmp, Circulate Into CICR, Circulate Hole Clean, R/D Rig Pmp, R/U ProPetro To Pmp Squeeze, Pmp 100sx G Grd Cement=20bbls, Displace W/20.5BW, Final Psr Held @ 1800psi, Sting Out Of CICR, Leave 1/2bbl Cement On Top Of CICR, L/D 1jt, Ciculate Cement Out Of Tbg, R/D & Release ProPetro, TOO H W/ Stinger & L/D, SWI, Winterize Rig Pmp, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, Get Injection Rate, Pmp 50BW @ 3bpm W/ No Psr, Fill Csg, W/ 40BW, Psr Csg to 1300psi & Psr Fell To Opsi, Release Pkr & Reset, Pmp 60BW W/ No Psr, Release Pkr & TOO H, Found Hole In Tbg Jt #166, TOO H & L/D Pkr, P/U N/C & RIH W/ 40jts Tbg, Dump 2bags Of Sand, Wait 30min For Sand To Fall To Plg, TOO H W/ Tbg, P/U & RIH W/ CICR, & S/N, Set CICR @ 3611', R/U H/Oiler To Tbg, Fill W/ 10BWPs, Psr Tst Tbg To 3000psi(Good Tst), Sting Out Of CICR, R/U H/Oiler To Csg, Fill W/ 40BW, Psr Tst CICR & Csg To 1500psi(Good Tst), Sting Back Into CICR, R/D H/Oiler, Was Not Stung In All the Way, R/U Rig Pmp, Circulate Into CICR, Circulate Hole Clean, R/D Rig Pmp, R/U ProPetro To Pmp Squeeze, Pmp 100sx G Grd Cement=20bbls, Displace W/20.5BW, Final Psr Held @ 1800psi, Sting Out Of CICR, Leave 1/2bbl Cement On Top Of CICR, L/D 1jt, Ciculate Cement Out Of Tbg, R/D & Release ProPetro, TOO H W/ Stinger & L/D, SWI, Winterize Rig Pmp, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$34,879

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**10/30/2013 Day: 4****Conversion**

NC #3 on 10/30/2013 - TIH W/ Bit, Drill On Cement. - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Safety Meeting. Bleed off well. PU & TIH w/ metal muncher bit & tbg. Tag cement @3605'. Tag CICR @ 3611'. Drill on CICR for 3 hours. Swivel up jts off trailer to clean out cement. Drilled up 30' of cement. Pull up 1-jt and SWI @ 6:30PM. 6:30PM-7:00PM c/ travel. - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Safety Meeting. Bleed off well. PU & TIH w/ metal muncher bit & tbg. Tag cement @3605'. Tag CICR @ 3611'. Drill on CICR for 3 hours. Swivel up jts off trailer to clean out cement. Drilled up 30' of cement. Pull up 1-jt and SWI @ 6:30PM. 6:30PM-7:00PM c/ travel. - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Safety Meeting. Bleed off well. PU & TIH w/ metal muncher bit & tbg. Tag cement @3605'. Tag CICR @ 3611'. Drill on CICR for 3 hours. Swivel up jts off trailer to clean out cement. Drilled up 30' of cement. Pull up 1-jt and SWI @ 6:30PM. 6:30PM-7:00PM c/ travel. - 5:30AM-6:00AM C/Tvl, 6:00AM-10:00AM Safety Meeting. Bleed off well. PU & TIH w/ metal muncher bit & tbg. Tag cement @3605'. Tag CICR @ 3611'. Drill on CICR for 3 hours. Swivel up jts off trailer to clean out cement. Drilled up 30' of cement. Pull up 1-jt and SWI @ 6:30PM. 6:30PM-7:00PM c/ travel. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$42,576

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**11/1/2013 Day: 5****Conversion**

NC #3 on 11/1/2013 - TOO, L/D Bit, P/U Tricone Bit & RIH, Drill Up Cement, Psr Tst Squeeze, Circulate Hole Clean & Plg, TOO, TIH W/ Retrieving Head. - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate Hole Clean, Release RBP, R/D Pwr Swvl, R/U Tbg Eqp, RIH W/ Tbg, TOO W/ 80jts Tbg, Brake & Dope Each Connection W/ Lubon 404G, Repair Rig, Repair Jake Brakes & Reprogram ECM On Rig Motor, SWI, Send Crew Into Newfield Office To Do Timesheets & Safety Meetings, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate Hole Clean, Release RBP, R/D Pwr Swvl, R/U Tbg Eqp, RIH W/ Tbg, TOO W/ 80jts Tbg, Brake & Dope Each Connection W/ Lubon 404G, Repair Rig, Repair Jake Brakes & Reprogram ECM On Rig Motor, SWI, Send Crew Into Newfield Office To Do Timesheets & Safety Meetings, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Metal Muncher Bit, P/U & RIH W/ Tricone Bit, R/D Tbg Eqp, R/U Pwr Swvl, R/U Rig Pmp, Brake Circulation, Drill Cement To 3698' & Fell Through, Drilling Cement @ 1 To 1 1/2 Hrs Per Jt, Circulate Hole Clean @ 3708', Shut Blind Rams, Psr Tst Squeeze To 1600psi, Bleed Off To 1500psi In 15 Min, Next 15 Min Bleed Off To 1480psi, OWU, TIH To 3745, Brake Circulation, Wash & Circulate Up Sand To 3750', Circulate Hole Clean, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Bit, L/D Bit & Bit Sub, P/U & RIH W/ Weatherford Retrieving Head, TIH W/ 40jts Tbg, SWI, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Metal Muncher Bit, P/U & RIH W/ Tricone Bit, R/D Tbg Eqp, R/U Pwr Swvl, R/U Rig Pmp, Brake Circulation, Drill Cement To 3698' & Fell Through, Drilling Cement @ 1 To 1 1/2 Hrs Per Jt, Circulate Hole Clean @ 3708', Shut Blind Rams, Psr Tst Squeeze To 1600psi, Bleed Off To 1500psi In 15 Min, Next 15 Min Bleed Off To 1480psi, OWU, TIH To 3745, Brake Circulation, Wash & Circulate Up Sand To 3750', Circulate Hole Clean, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Bit, L/D Bit & Bit Sub, P/U & RIH W/ Weatherford Retrieving Head, TIH W/ 40jts Tbg, SWI, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate Hole Clean, Release RBP, R/D Pwr Swvl, R/U Tbg Eqp, RIH W/ Tbg, TOO W/ 80jts Tbg, Brake & Dope Each Connection W/ Lubon 404G, Repair Rig, Repair Jake Brakes & Reprogram ECM On Rig Motor, SWI, Send Crew Into Newfield Office To Do Timesheets & Safety Meetings, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate Hole Clean, Release RBP, R/D Pwr Swvl, R/U Tbg Eqp, RIH W/ Tbg, TOO W/ 80jts Tbg, Brake & Dope Each Connection W/ Lubon 404G, Repair Rig, Repair Jake Brakes & Reprogram ECM On Rig Motor, SWI, Send Crew Into Newfield Office To Do Timesheets & Safety Meetings, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Metal Muncher Bit, P/U & RIH W/ Tricone Bit, R/D Tbg Eqp, R/U Pwr Swvl, R/U Rig Pmp, Brake Circulation, Drill Cement To 3698' & Fell Through, Drilling Cement @ 1 To 1 1/2 Hrs Per Jt, Circulate Hole Clean @ 3708', Shut Blind Rams, Psr Tst Squeeze To 1600psi, Bleed Off To 1500psi In 15 Min, Next 15 Min Bleed Off To 1480psi, OWU, TIH To 3745, Brake Circulation, Wash & Circulate Up Sand To 3750', Circulate Hole Clean, R/D Pwr Swvl, R/U Tbg Eqp, TOO W/ Bit, L/D Bit & Bit Sub, P/U & RIH W/ Weatherford Retrieving Head, TIH W/ 40jts Tbg, SWI, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate Hole Clean, Release RBP, R/D Pwr Swvl, R/U Tbg Eqp, RIH W/ Tbg, TOO W/ 80jts Tbg, Brake & Dope Each Connection W/ Lubon 404G, Repair Rig, Repair Jake Brakes & Reprogram ECM On Rig Motor, SWI, Send Crew Into Newfield Office To Do Timesheets & Safety Meetings, 5:30PM CSDFN, 5:30PM-6:00PM C/Tvl - 5:30AM-6:00AM C/Tvl, 6:00AM OWU, RIH W/ Retrieving Head, Brake Circulation, Latch Onto RBP, Circulate

<http://www.inewfld.com/denver/SumActRpt.asp?RC=154107&API=4301332754&MinD...> 11/20/2013



C/Tvl. - 11:00AM-1:30PM Rig Move, 1:30PM MIRU NC#3, Psr Tbg Up To 1500psi, Psr Tst Tbg, Bled Off To 1225psi @ 1.67psi Per Min, Blow Well Down, N/D W/H-D, ReleasePkr, L/D 1jt Tbg, Set Pkr(Top Perf @4032', L/D 1jt=EOT @ 3965.49-C/E @ 3956.01) N/U W/H-D, Fill Csg W/10 BW, Psr Tbg To 1500psi, Psr Tst Csg, Bled Off To1450psi, Bled Off @ .33psi Per Min, SWI, 6:00PM CSDFN, 6:00PM-6:30PM C/Tvl. - 5:30AM-6:00AM C/Tvl, 6:00AM Check Psr, Psr @ 1190psi, Watch For One Hour, No Change In Psr, Call Up Newfield Employee To Do MIT On Well, Wait On Hand, R/U For MIT, MIT Well, Well Held Psr For One Hour, Good Tst, R/D & M/O NC#3. Final Report - 5:30AM-6:00AM C/Tvl, 6:00AM Check Psr, Psr @ 1190psi, Watch For One Hour, No Change In Psr, Call Up Newfield Employee To Do MIT On Well, Wait On Hand, R/U For MIT, MIT Well, Well Held Psr For One Hour, Good Tst, R/D & M/O NC#3. Final Report

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$113,185

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**11/19/2013 Day: 12**

**Conversion**

Rigless on 11/19/2013 - Conduct initial MIT - On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 11/07/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1062 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$131,419

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**Pertinent Files: [Go to File List](#)**

Spud Date:12/28/05  
Put on Production: 02/02/06  
GL: 5704' KB: 5716'

## Jonah Federal 16-15-9-16

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.16')  
DEPTH LANDED: 327.01' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

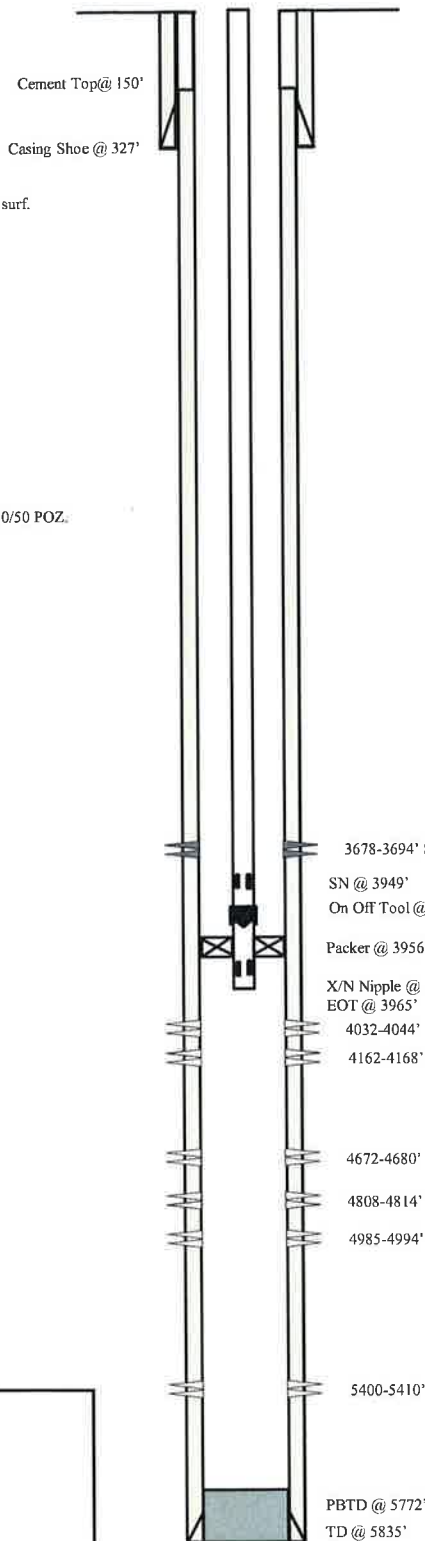
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5818.63')  
DEPTH LANDED: 5817.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 150'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 138 jts (3937")  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3949' KB  
ON/OFF TOOL AT: 3950.1'  
ARROW #1 PACKER CE AT: 3956.2'  
XO 2-3/8 x 2-7/8 J-55 AT: 3959.2'  
TBG PUP 2-3/8 J-55 AT: 3959.7'  
X/N NIPPLE AT: 3963.9'  
TOTAL STRING LENGTH: EOT @ 3965.49'

### Injection Wellbore Diagram



### FRAC JOB

01/25/06 5400-5410' **Frac CPl sands as follows:**  
14789# 20/40 sand in 255 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 5398 gal. Actual flush: 4872 gal.

01/25/06 4985-4994' **Frac A3 sands as follows:**  
18508# 20/40 sand 284 bbls Lightning 17 frac fluid. Treated @ avg press of 1845 psi w/avg rate of 25.1 BPM. ISIP 1870 psi. Calc flush: 4983 gal. Actual flush: 4992 gal.

01/25/06 4808-4814' **Frac B2 sands as follows:**  
23613# 20/40 sand in 319 bbls Lightning 17 frac fluid. Treated @ avg press of 2375 psi w/avg rate of 25.1 BPM. ISIP 2600 psi. Calc flush: 4806 gal. Actual flush: 4284 gal.

01/25/06 4672-4680' **Frac C sands as follows:**  
61018# 20/40 sand in 480 bbls Lightning 17 frac fluid. Treated @ avg press of 2005 psi w/avg rate of 25 BPM. ISIP 2240 psi. Calc flush: 4670 gal. Actual flush: 4116 gal.

01/25/06 4032-4044' **Frac PB8, GB6 sands as follows:**  
29328# 20/40 sand in 330 bbls Lightning 17 frac fluid. Treated @ avg press of 1813 psi w/avg rate of 25.1 BPM. ISIP 1835 psi. Calc flush: 4030 gal. Actual flush: 3486 gal.

01/25/06 3678-3694' **Frac GG sands as follows:**  
48534# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1840 psi. Calc flush: 3676 gal. Actual flush: 3570 gal.

06-26-06 **Parted Rods:** Update rod and tubing details.

11-27-06 **Pump Change:** Updated rod and tubing detail.

9-12-07 **Pump change.** Updated rod & tubing details.

04/17/08 **Pump change.** Updated rod & tubing details.

12/11/09 **Tubing leak.** Updated rod and tubing details.

10/29/13 3678-3694' **Cmt Squeeze** – 100 sxs Class G Cement

11/15/13 **Conversion MIT Finalized** – update tbg detail

### PERFORATION RECORD

01/18/06	5400-5410'	4 JSPF	40 holes
01/25/06	4985-4994'	4 JSPF	36 holes
01/25/06	4808-4814'	4 JSPF	24 holes
01/25/06	4672-4680'	4 JSPF	32 holes
01/25/06	4162-4168'	4 JSPF	24 holes
01/25/06	4032-4044'	4 JSPF	48 holes
01/25/06	3678-3694'	4 JSPF	64 holes Squeezed



**Jonah Federal 16-15-9-16**  
512' FSL & 535' FEL  
SE/SE Section 15-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32754; Lease #UTU-17985



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

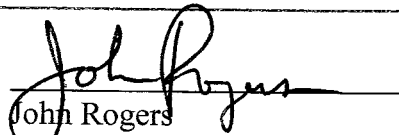
Cause No. UIC-410

**Operator:** Newfield Production Company  
**Well:** Jonah Federal 16-15-9-16  
**Location:** Section 15, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-32754  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 22, 2013.
2. Maximum Allowable Injection Pressure: 1,809 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,490' – 5,772')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

12/2/2013  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

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GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 22, 2013

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Jonah Federal 16-15-9-16, Section 15, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-32754

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,490 feet in the Jonah Federal 16-15-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

John Rogers  
Associate Director

JR/BGH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Jonah Federal 16-15-9-16

**Location:** 15/9S/16E      **API:** 43-013-32754

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 327 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,818 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,970 feet. A 2 7/8 inch tubing with a packer is proposed to be set at 3,628 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. Based on surface locations, there are 10 producing wells, 6 injection wells, and 1 shut-in well in the AOR. One of the producing wells is directionally drilled, with a surface location inside the AOR and a bottom hole location outside the AOR. In addition, there are 2 directional producing wells with surface locations outside the AOR and bottom hole locations inside the AOR. One of the producing wells is currently in the process of being converted to an injection well. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2700 feet. Injection shall be limited to the interval between 3,490 feet and 5,772 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 16-15-9-16 well is 0.89 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,809 psig. The requested maximum pressure is 1,809 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Jonah Federal 16-15-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 6/19/2013



4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED.TAX I.D.# 87-0217663  
801-204-6910

The Salt Lake Tribune

WWW.SLTTRIB.COM

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A NEWSPAPER AGENCY COMPANY  
WWW.MEDIAONEUTAH.COM

Deseret News

WWW.DESERETNEWS.COM

PROOF OF PUBLICATION

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CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	6/14/2013

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, A CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicatory proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:  
Ashley Federal 10-15-9-15 well located in NW/4 SE/4 Section 15, Township 9 South, Range 15 East  
API 43-013-32471  
West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765  
Jonah Federal 14-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103  
Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16 well located in NE/4 NW/4, Section 3, Township 9 South, Range 16 East  
API 43-013-33454

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedures. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

886505

UPAXLE

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMBER
8015385340	0000886505 /
SCHEDULE	
Start 06/14/2013	End 06/14/2013
CUST. REF. NO.	
Cause No. UIC-410	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES	
SIZE	
78 Lines	2.00 COLUMN
TIMES	RATE
4	
MISC. CHARGES	AD CHARGES
TOTAL COST	
267.08	

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-410 IN THE MATTER OF THE APPLICATION FOR DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS. DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY.

PUBLISHED ON Start 06/14/2013 End 06/14/2013

SIGNATURE

6/14/2013

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

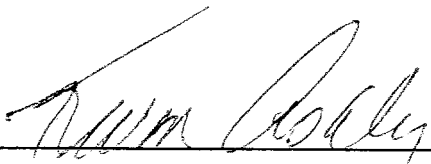
VIRGINIA CRAFT  
Notary Public, State of Utah  
Commission # 581489  
My Commission Expires  
January 17, 2014

Virginia Craft

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 18 day of June, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of June, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

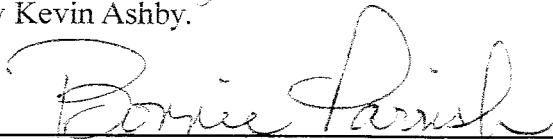


Publisher

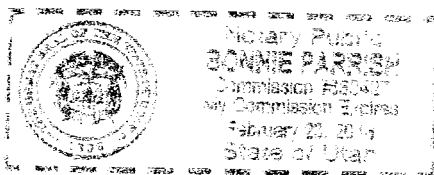
Subscribed and sworn to before me on this

19 day of June, 20 13

by Kevin Ashby.



Notary Public



## NOTICE OF AGENCY AC- TION CAUSE NO. UIC-410

BEFORE THE DI-  
VISION OF OIL, GAS  
AND MINING, DE-  
PARTMENT OF NAT-  
URAL RESOURCES,  
STATE OF UTAH

IN THE MATTER  
OF THE APPLICA-  
TION OF NEW-  
FIELD PRODUCTION  
COMPANY  
FOR ADMINISTRATIVE  
APPROVAL OF CERTAIN WELLS  
LOCATED IN SEC-  
TION 15, TOWNSHIP 9 SOUTH,  
RANGE 15 EAST,  
AND SECTIONS 6,  
15, 18, 19, 20, and  
30, TOWNSHIP 9  
SOUTH, RANGE 16  
EAST, DUCHESNE  
COUNTY, UTAH, AS  
CLASS II INJECTION  
WELLS.

THE STATE OF  
UTAH TO ALL PER-  
SONS INTERESTED  
IN THE ABOVE EN-  
TITLED MATTER.

Notice is hereby  
given that the Division  
of Oil, Gas and Min-  
ing (the "Division")  
is commencing an in-  
formal adjudicative  
proceeding to consider  
the application of New-  
field Production Com-  
pany, 1001 17th Street,  
Suite 2000, Denver,  
Colorado 80202, tele-  
phone 303-893-0102,  
for administrative ap-  
proval of the following  
wells located in Duch-  
esne County, Utah, for  
conversion to Class II  
injection wells:

Greater Monument  
Butte Unit:

Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East

API 43-013-32471

West Point U 12-6-  
9-16 well located in  
NW/4 SW/4, Section  
6, Township 9 South,  
Range 16 East

API 43-013-31765

Jonah Federal 16-  
15-9-16 well located  
in SE/4 SE/4, Section  
15, Township 9 South,  
Range 16 East

API 43-013-32754

Federal 12-18-9-  
16 well located in

Selected zones in the  
Green River Formation  
will be used for water  
injection. The maxi-  
mum requested injec-  
tion pressures and rates  
will be determined  
based on fracture gra-  
dient information sub-  
mitted by Newfield  
Production Company.

Any person desir-  
ing to object to the  
application or oth-  
erwise intervene in  
the proceeding, must  
file a written protest  
or notice of interven-  
tion with the Division  
within fifteen days  
following publication  
of this notice. The Di-  
vision's Presiding Of-  
ficer for the proceeding  
is Brad Hill, Permitting  
Manager, at P.O. Box  
145801, Salt Lake City,  
UT 84114-5801, phone  
number (801) 538-  
5340. If such a protest  
or notice of interven-  
tion is received, a hear-  
ing will be scheduled  
in accordance with  
the aforementioned  
administrative pro-  
cedural rules. Protes-  
tants and/or interven-  
ers should be prepared  
to demonstrate at the  
hearing how this matter  
affects their interests.

Dated this 11th day  
of June, 2013.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

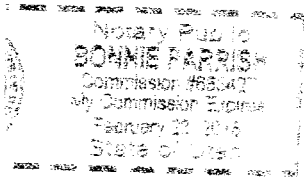
/s/

Brad Hill

Permitting Manager

Published in the  
Uintah Basin Standard  
June 18, 2013.

*Yee Tarnst*  
Notary Public



injection wells:  
Greater Monument  
Butte Unit:

Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East

API 43-013-32471

West Point U 12-6-  
9-16 well located in  
NW/4 SW/4, Section  
6, Township 9 South,  
Range 16 East

API 43-013-31765

Jonah Federal 16-  
15-9-16 well located  
in SE/4 SE/4, Section  
15, Township 9 South,  
Range 16 East

API 43-013-32754

Federal 12-18-9-  
16 well located in  
NW/4 SW/4, Section  
18, Township 9 South,  
Range 16 East

API 43-013-32998

Federal 14-18-9-  
16 well located in  
SE/4 SW/4, Section  
18, Township 9 South,  
Range 16 East

API 43-013-33000

Federal 13-19-9-  
16 well located in  
SW/4 SW/4, Section  
19, Township 9 South,  
Range 16 East

API 43-013-33103

Monument Federal  
22-20-9-16 well lo-  
cated in SE/4 NW/4,  
Section 20, Township  
9 South, Range 16 East

API 43-013-31681

Federal 3-30-9-16  
well located in NE/4  
NW/4, Section 30,  
Township 9 South,  
Range 16 East

API 43-013-33454

The proceeding will  
be conducted in ac-  
cordance with Utah  
Admin. R649-10, Ad-  
ministrative Proce-  
dures.

Permitting Manager  
Published in the  
Uintah Basin Standard  
June 18, 2013.

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471

West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765

Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754

Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998

Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000

Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103

Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681

Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

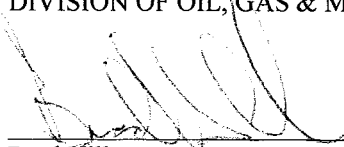
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11<sup>th</sup> day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 10-15-9-15, WEST POINT U 12-6-9-16,  
JONAH FEDERAL 16-15-9-16, FEDERAL 12-18-9-16,  
FEDERAL 14-18-9-16, FEDERAL 13-19-9-16  
MONUMENT FEDERAL 22-20-9-16, FEDERAL 3-30-9-16**

**Cause No. UIC-410**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Ute Tribe  
P O Box 190  
Ft. Duchesne, UT 84026

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 11, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





Jean Sweet <jsweet@utah.gov>

---

**Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410**

1 message

---

**Cindy Kleinfelter** <classifieds@ubstandard.com>

Wed, Jun 12, 2013 at 10:20 AM

To: Jean Sweet <jsweet@utah.gov>

On 6/11/2013 2:40 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

—

Jean Sweet  
Executive Secretary  
Utah Division of Oil, Gas and Mining  
801-538-532

This will run June 18.

Thank you,  
Cindy





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 11, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





Jean Sweet <[jsweet@utah.gov](mailto:jsweet@utah.gov)>

---

## Proof for Notice

1 message

---

**Stowe, Ken** <[naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)>

Tue, Jun 11, 2013 at 3:21 PM

Reply-To: "Stowe, Ken" <[naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)>

To: [jsweet@utah.gov](mailto:jsweet@utah.gov)

AD# 886505

Run SL Trib & Des News 6/14

Cost \$267.08

Thank You

---

 **OrderConf.pdf**  
125K

## Order Confirmation for Ad #0000886505-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114

<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>EMail</b>	juliecarter@utah.gov	Jean	kstowe

**Total Amount** \$267.08

**Payment Amt** \$0.00

	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
<b>Amount Due</b>	\$267.08	0	0
<b>Payment Method</b>		<b>PO Number</b>	Cause No. UIC-410

**Confirmation Notes:**

**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 78 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices

**Scheduled Date(s):** 6/14/2013

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices

**Scheduled Date(s):** 6/14/2013

<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices

**Scheduled Date(s):** 6/14/2013

<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com

**Scheduled Date(s):** 6/14/2013

### Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:  
Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471  
West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765  
Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103  
Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

866505

UPAXLP

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

June 4, 2013

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

**RECEIVED**

**JUN 05 2013**

**DIV. OF OIL, GAS & MINING**

RE: Permit Application for Water Injection Well  
Jonah Federal #16-15-9-16  
Monument Butte Field, Lease #UTU-17985  
Section 15-Township 9S-Range 16E  
Duchesne County, Utah

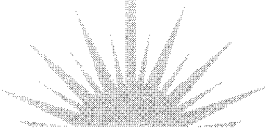
Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Jonah Federal #16-15-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg  
Environmental Manager



**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**JONAH FEDERAL #16-15-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-17985**  
**JUNE 4, 2013**




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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: <u>Jonah Federal #16-15-9-16</u>	
Field or Unit name: <u>Monument Butte (Green River)</u>	Lease No. <u>UTU-17985</u>
Well Location: QQ <u>SESE</u> section <u>15</u> township <u>9S</u> range <u>16E</u> county <u>Duchesne</u>	
Is this application for expansion of an existing project? ..... Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Will the proposed well be used for:	
Enhanced Recovery? .....	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Disposal? .....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Storage? .....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is this application for a new well to be drilled? ..... Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If this application is for an existing well,	
has a casing test been performed on the well? ..... Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Date of test: _____	
API number: <u>43-013-32754</u>	
Proposed injection interval: from <u>3490</u> to <u>5772</u>	
Proposed maximum injection: rate <u>500 bpd</u> pressure <u>1809</u> psig	
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.	
<div style="border: 1px solid black; padding: 5px; text-align: center;">IMPORTANT: Additional information as required by R615-5-2 should accompany this form.</div>	
List of Attachments: <u>Attachments "A" through "H-1"</u>	
I certify that this report is true and complete to the best of my knowledge.	
Name: <u>Eric Sundberg</u>	Signature: 
Title: <u>Environmental Manager</u>	Date: <u>6/4/13</u>
Phone No. <u>(303) 893-0102</u>	
(State use only)	
Application approved by _____	Title _____
Approval Date _____	
Comments:	

# Jonah Federal 16-15-9-16

Spud Date:12/28/05  
Put on Production: 02/02/06  
GL: 5704' KB: 5716'

Initial Production: BOPD,  
MCFD, BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.16')  
DEPTH LANDED: 327.01' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

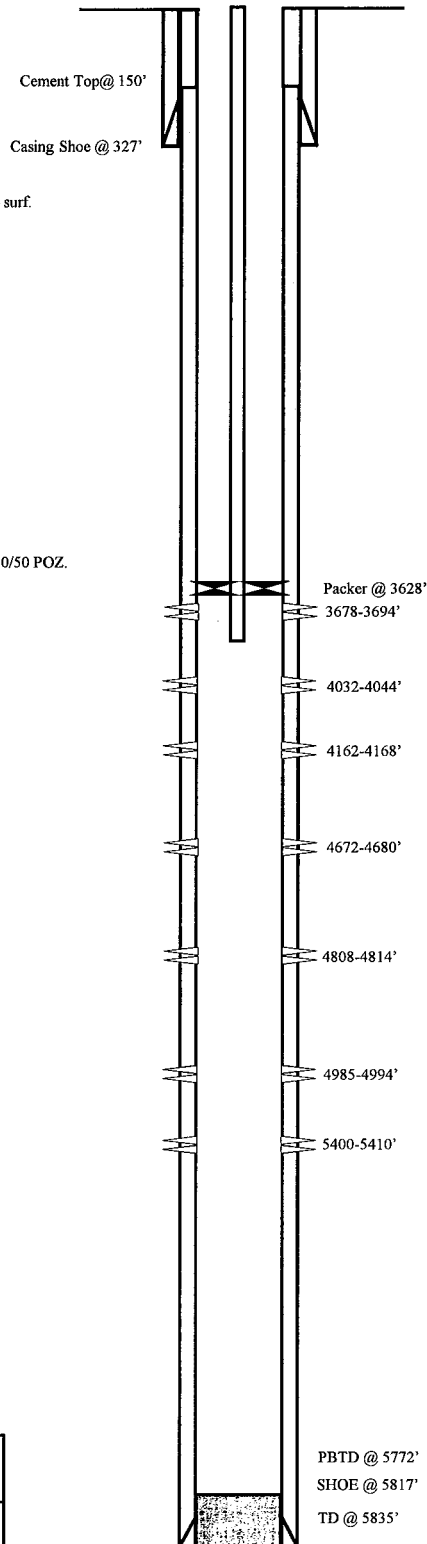
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5818.63')  
DEPTH LANDED: 5817.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 150'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 170 jts (5415.7')  
TUBING ANCHOR: 5427.7  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5462.2'  
NO. OF JOINTS: 2 jts (64.4')  
TOTAL STRING LENGTH: EOT @ 5528'

## Proposed Injection Wellbore Diagram



## FRAC JOB

01/25/06 5400-5410' **Frac CP1 sands as follows:**  
14789# 20/40 sand in 255 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 5398 gal. Actual flush: 4872 gal.

01/25/06 4985-4994' **Frac A3 sands as follows:**  
18508# 20/40 sand 284 bbls Lightning 17 frac fluid. Treated @ avg press of 1845 psi w/avg rate of 25.1 BPM. ISIP 1870 psi. Calc flush: 4983 gal. Actual flush: 4992 gal.

01/25/06 4808-4814' **Frac B2 sands as follows:**  
23613# 20/40 sand in 319 bbls Lightning 17 frac fluid. Treated @ avg press of 2375 psi w/avg rate of 25.1 BPM. ISIP 2600 psi. Calc flush: 4806 gal. Actual flush: 4284 gal.

01/25/06 4672-4680' **Frac C sands as follows:**  
61018# 20/40 sand in 480 bbls Lightning 17 frac fluid. Treated @ avg press of 2005 psi w/avg rate of 25 BPM. ISIP 2240 psi. Calc flush: 4670 gal. Actual flush: 4116 gal.

01/25/06 4032-4044' **Frac PB8, GB6 sands as follows:**  
29328# 20/40 sand in 330 bbls Lightning 17 frac fluid. Treated @ avg press of 1813 psi w/avg rate of 25.1 BPM. ISIP 1835 psi. Calc flush: 4030 gal. Actual flush: 3486 gal.

01/25/06 3678-3694' **Frac GG sands as follows:**  
48534# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1840 psi. Calc flush: 3676 gal. Actual flush: 3570 gal.

06-26-06 **Parted Rods:** Update rod and tubing details.  
11-27-06 **Pump Change:** Updated rod and tubing detail.  
9-12-07 **Pump change.** Updated rod & tubing details.  
04/17/08 **Pump change.** Updated rod & tubing details.  
12/11/09 **Tubing leak.** Updated rod and tubing details.

## PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
01/18/06	5400-5410'	4 JSPF	40 holes
01/25/06	4985-4994'	4 JSPF	36 holes
01/25/06	4808-4814'	4 JSPF	24 holes
01/25/06	4672-4680'	4 JSPF	32 holes
01/25/06	4162-4168'	4 JSPF	24 holes
01/25/06	4032-4044'	4 JSPF	48 holes
01/25/06	3678-3694'	4 JSPF	64 holes



### Jonah Federal 16-15-9-16

512' FSL & 535' FEL  
SE/SE Section 15-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32754; Lease #UTU-17985

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**
  - 2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202
  - 2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.
  - 2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Jonah Federal #16-15-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.
  - 2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.
  - 2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Jonah Federal #16-15-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3490' - 5772'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3490' and the TD is at 5835'.
  - 2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Jonah Federal #16-15-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-17985) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.



**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refilled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 327' KB, and 5-1/2", 15.5# casing run from surface to 5818' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1809 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Jonah Federal #16-15-9-16, for existing perforations (3678' - 5410') calculates at 0.89 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1809 psig. We may add additional perforations between 3490' and 5835'. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Jonah Federal #16-15-9-16, the proposed injection zone (3490' - 5772') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-17.

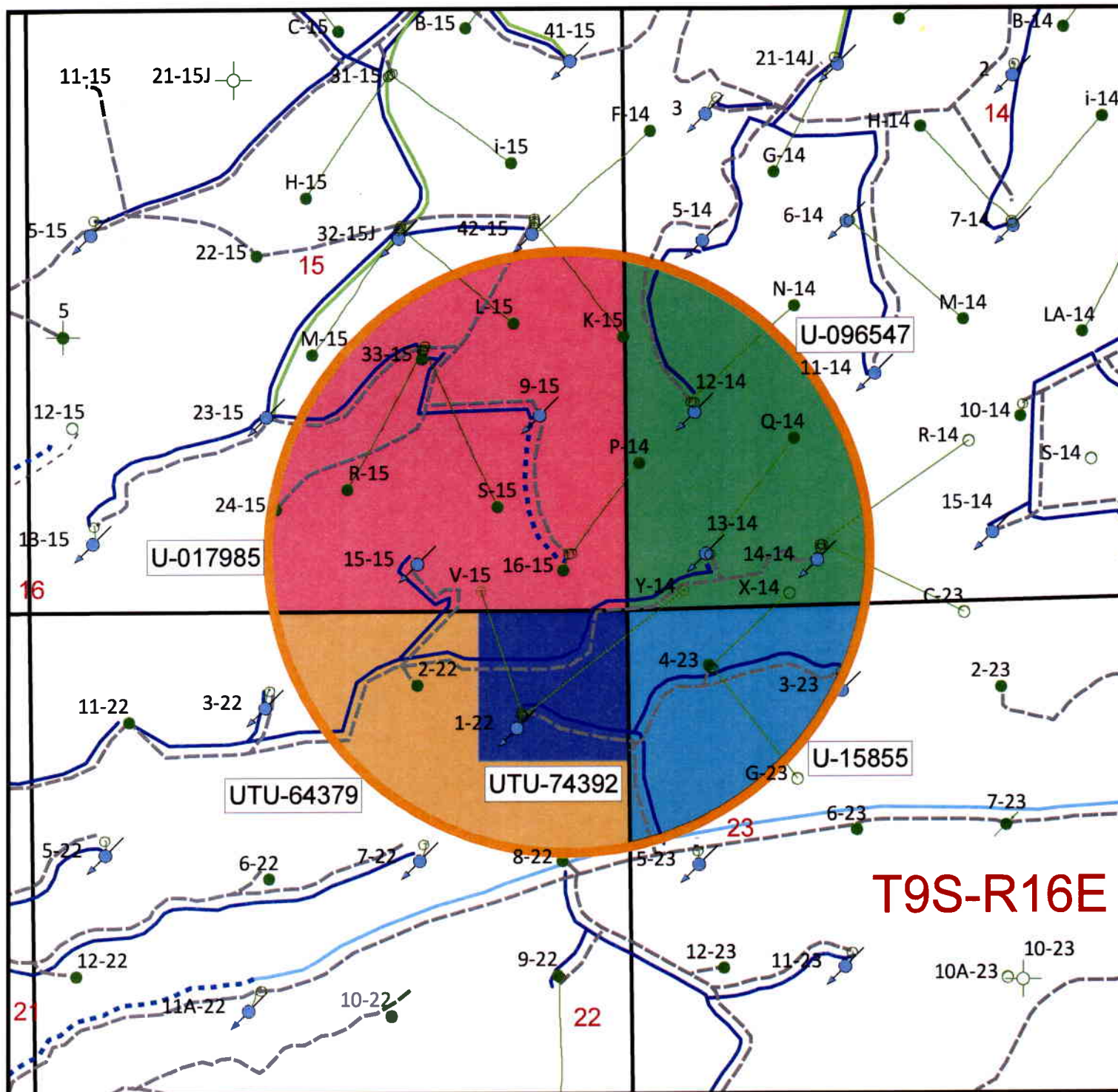
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.



- Lease Number**
- U-017985
  - U-096547
  - U-15855
  - UTU-64379
  - UTU-74392
  - SurfaceLocation\_HalfMile\_Buffer
- Well Status**
- Location
  - CTI
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
- Injection system**
- high pressure
  - low pressure
  - proposed
  - return
  - return proposed

JONAH 16-15  
Section 15, T9S-R16E

**T9S-R16E**



**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

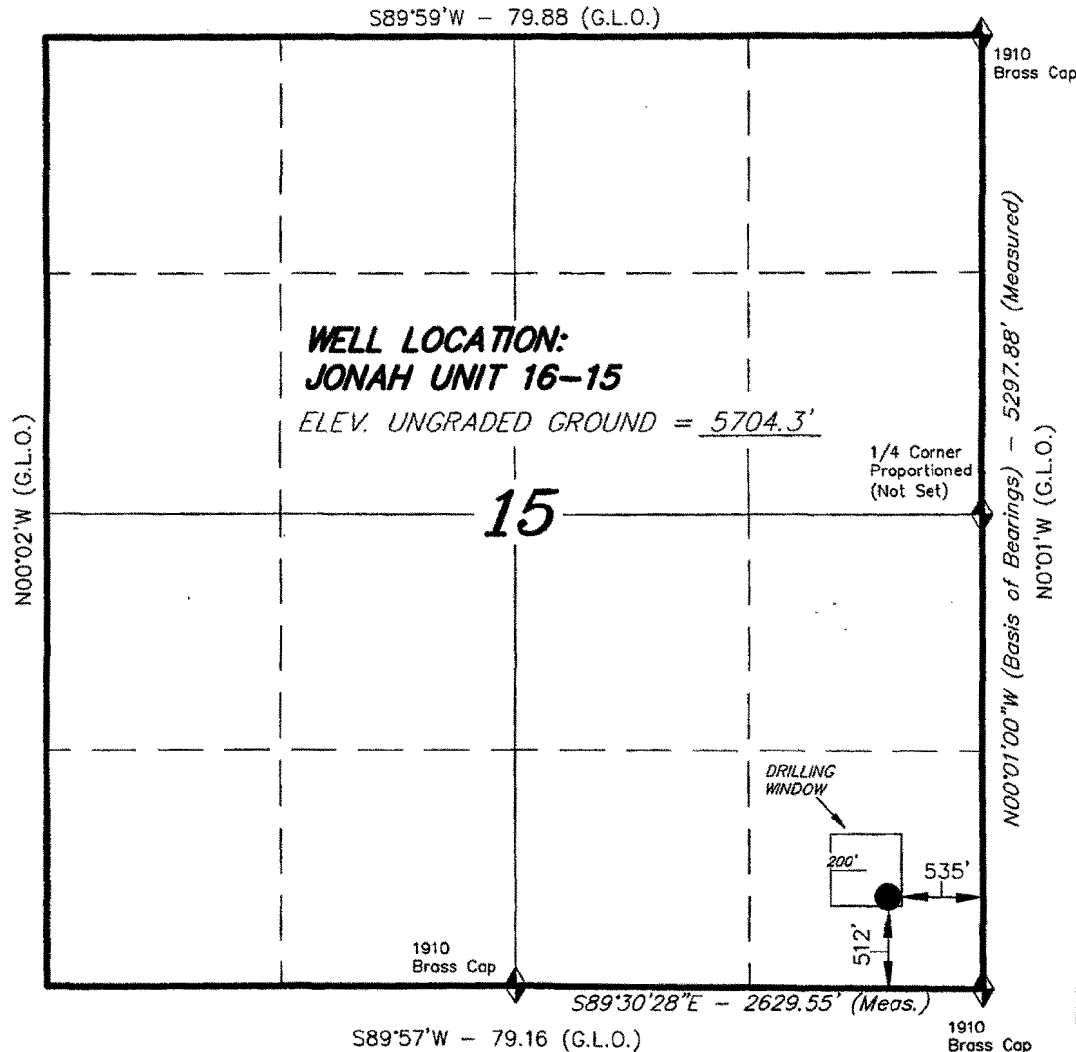
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone (303) 893-0102

May 13, 2013

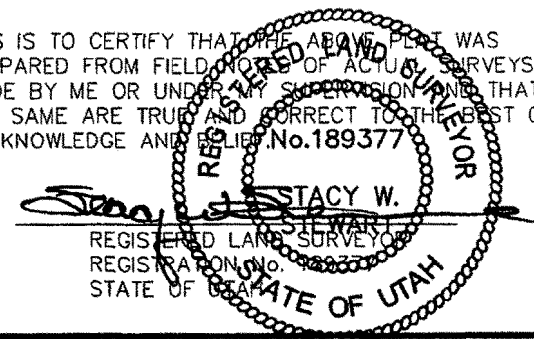
T9S, R16E, S.L.B.&amp;M.

INLAND PRODUCTION COMPANY

WELL LOCATION, JONAH UNIT 16-15,  
LOCATED AS SHOWN IN THE SE 1/4 SE  
1/4 OF SECTION 15, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

SCALE: 1" = 1000'

SURVEYED BY: D.J.S.

DATE: 8-25-04

DRAFTED BY: F.T.M.

NOTES:

FILE #

**EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 10: S2SE Section 15: E2, E2W2	USA UTU-017985 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corporation MYCO Industries Inc OXY Y-1 Company Yates Petroleum Coproration	USA
2	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW  Section 17: NE Section 18: E2SW, SE, LOTS 3, 4 Section 19: NE, E2NW, LOTS 1, 2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: ALL Section 28: ALL	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corporation MYCO Industries Inc OXY Y-1 Company Yates Petroleum Coproration	USA

4	T9S-R16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas Ltd Six Gold Oil LLC Stone Energy Corp	USA
5	T9S-R16E SLM Section 11: W2SW, SESW Section 14: SWNE, W2, W2SE, SESE	USA UTU-096547 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corporation ABO Petroleum Corp Myco Industries Inc Oxy Y-1 Company	USA


ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Jonah Federal #16-15-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

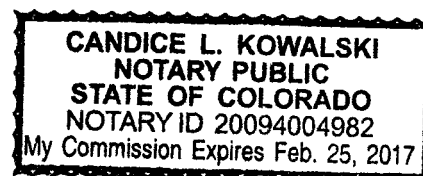
Signed:

  
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 4<sup>th</sup> day of June, 2013.

Notary Public in and for the State of Colorado: Candice L. Kowalski

My Commission Expires: My Commission Expires Feb. 25, 2017





## Jonah Federal 16-15-9-16

Spud Date: 12/28/05  
Put on Production: 02/02/06  
GL: 5704' KB: 5716'

### Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.16')  
DEPTH LANDED: 327.01' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5818.63')  
DEPTH LANDED: 5817.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 150'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 170 jts (5415.7')  
TUBING ANCHOR: 5427.7  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5462.2'  
NO. OF JOINTS: 2 jts (64.4')  
TOTAL STRING LENGTH: EOT @ 5528'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22'  
SUCKER RODS: 3-2" x 3/4" pony rods, 212- 3/4" guided rods, 6- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-3/4" x 16" RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5

#### FRAC JOB

01/25/06 5400-5410' **Frac CP1 sands as follows:**  
14789# 20/40 sand in 255 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 5398 gal. Actual flush: 4872 gal.

01/25/06 4985-4994' **Frac A3 sands as follows:**  
18508# 20/40 sand 284 bbls Lightning 17 frac fluid. Treated @ avg press of 1845 psi w/avg rate of 25.1 BPM. ISIP 1870 psi. Calc flush: 4983 gal. Actual flush: 4992 gal.

01/25/06 4808-4814' **Frac B2 sands as follows:**  
23613# 20/40 sand in 319 bbls Lightning 17 frac fluid. Treated @ avg press of 2375 psi w/avg rate of 25.1 BPM. ISIP 2600 psi. Calc flush: 4806 gal. Actual flush: 4284 gal.

01/25/06 4672-4680' **Frac C sands as follows:**  
61018# 20/40 sand in 480 bbls Lightning 17 frac fluid. Treated @ avg press of 2005 psi w/avg rate of 25 BPM. ISIP 2240 psi. Calc flush: 4670 gal. Actual flush: 4116 gal.

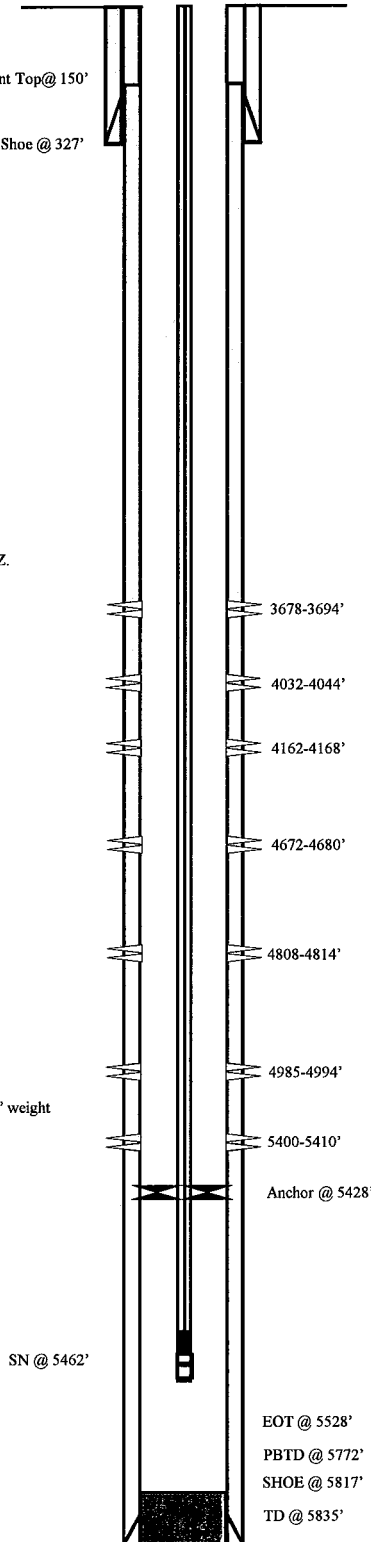
01/25/06 4032-4044' **Frac PB8, GB6 sands as follows:**  
29328# 20/40 sand in 330 bbls Lightning 17 frac fluid. Treated @ avg press of 1813 psi w/avg rate of 25.1 BPM. ISIP 1835 psi. Calc flush: 4030 gal. Actual flush: 3486 gal.

01/25/06 3678-3694' **Frac GG sands as follows:**  
48534# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1840 psi. Calc flush: 3676 gal. Actual flush: 3570 gal.

06-26-06 **Parted Rods:** Update rod and tubing details.  
11-27-06 **Pump Change:** Updated rod and tubing detail.  
9-12-07 **Pump change:** Updated rod & tubing details.  
04/17/08 **Pump change:** Updated rod & tubing details.  
12/11/09 **Tubing leak:** Updated rod and tubing details.

#### PERFORATION RECORD

Date	Interval	Tool	Holes
01/18/06	5400-5410'	4 JSPF	40 holes
01/25/06	4985-4994'	4 JSPF	36 holes
01/25/06	4808-4814'	4 JSPF	24 holes
01/25/06	4672-4680'	4 JSPF	32 holes
01/25/06	4162-4168'	4 JSPF	24 holes
01/25/06	4032-4044'	4 JSPF	48 holes
01/25/06	3678-3694'	4 JSPF	64 holes



### Jonah Federal 16-15-9-16

512' FSL & 535' FEL

SE/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32754; Lease #UTU-17985

## Jonah Federal 9-15-9-16

Spud Date: 6-1-05  
Put on Production: 7-7-05  
GL: 5698' KB: 5710'

Initial Production: 77 BOPD,  
11 MCFD, 59 BWPD

Injection Wellbore  
DiagramSURFACE CASING

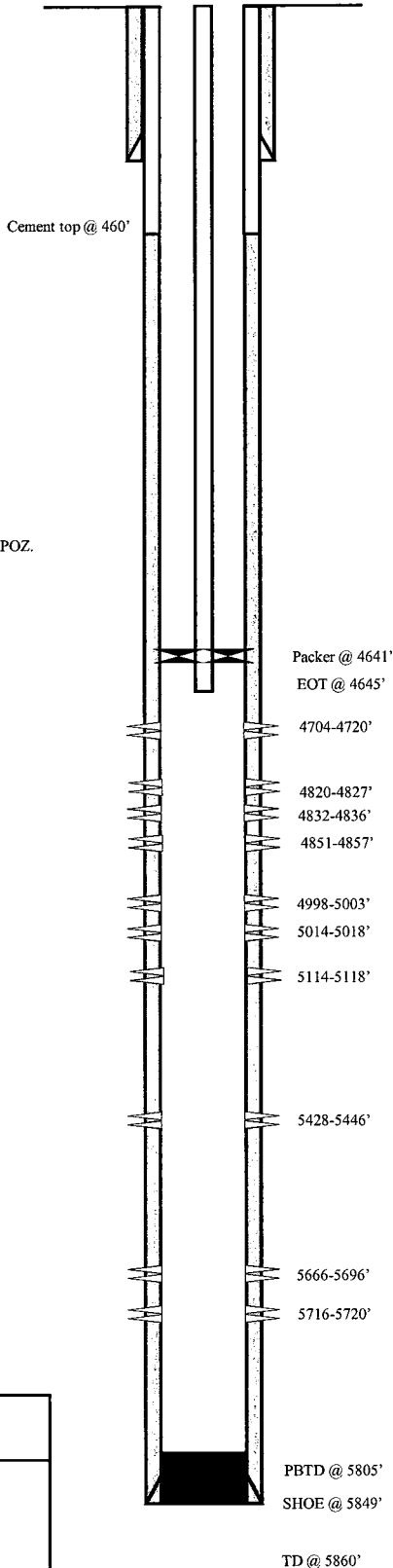
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jnts (302.72')  
DEPTH LANDED: 314.57' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 138 jts. (5836.02')  
DEPTH LANDED: 5849.27' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 460'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 148 jts (4436.14')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4636.14' KB  
TOTAL STRING LENGTH: EOT @ 4644.69' KB

FRAC JOB

6-30-05	5666-5696'	<b>Frac CP5 &amp; CP4 sands as follows:</b> 70165# 20/40 sand in 559 bbls Lightning 17 frac fluid. Treated @ avg press of 1230 psi w/avg rate of 24.5 BPM. ISIP 1800 psi. Calc flush: 5664 gal. Actual flush: 5670 gal.
6-30-05	5428-5446'	<b>Frac CP1 sands as follows:</b> 57169# 20/40 sand in 486 bbls Lightning 17 frac fluid. Treated @ avg press of 1346 psi w/avg rate of 24.5 BPM. ISIP 1900 psi. Calc flush: 5426 gal. Actual flush: 5418 gal.
7-1-05	4998-5118'	<b>Frac LODC, A1, A3 sands as follows:</b> 34026# 20/40 sand in 343 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.5 BPM. ISIP 2500 psi. Calc flush: 5996 gal. Actual flush: 4738 gal.
7-1-05	4820-4857'	<b>Frac B2 sands as follows:</b> 49623# 20/40 sand in 426 bbls Lightning 17 frac fluid. Treated @ ave. pressure of 1590 24.5 BPM. ISIP 2000 psi. Calc flush: 4818 gal. Actual flush: 4578 gal.
7-1-05	4704-4720'	<b>Frac C sands as follows:</b> 88671# 20/40 sand in 632 bbls Lightning 17 frac fluid. 24.5 BPM. Treated @ ave. pressure of 1714 ISIP 2000 psi. Calc flush: 4402 gal. Actual flush: 4607 gal.
11/14/06	11/21/06	<b>Well converted to an Injection well.</b> <b>MIT completed and submitted.</b>

PERFORATION RECORD

6-24-05	5666-5696'	4 JSPF	120 holes
6-24-05	5716-5720'	4 JSPF	16 holes
6-30-05	5428-5446'	4 JSPF	72 holes
6-30-05	5114-5118'	4 JSPF	16 holes
6-30-05	5014-5018'	4 JSPF	16 holes
6-30-05	4998-5003'	4 JSPF	20 holes
7-1-05	4851-4857'	4 JSPF	24 holes
7-1-05	4832-4836'	4 JSPF	16 holes
7-1-05	4820-4827'	4 JSPF	28 holes
7-1-05	4704-4720'	4 JSPF	64 holes



## Jonah Federal 9-15-9-16

1724' FSL & 782' FEL

NE/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32683; Lease #UTU-017985

## Jonah Fed K-15-9-16

Spud Date: 11/19/08  
Put on Production: 1/6/2009

GL: 5659' KB: 5671'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (312.35')  
DEPTH LANDED: 324.20' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 1 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 159 jts (6088.70')  
DEPTH LANDED: 6101.95'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sx primlite and 400 sx 50/50 poz  
CEMENT TOP AT: 100'

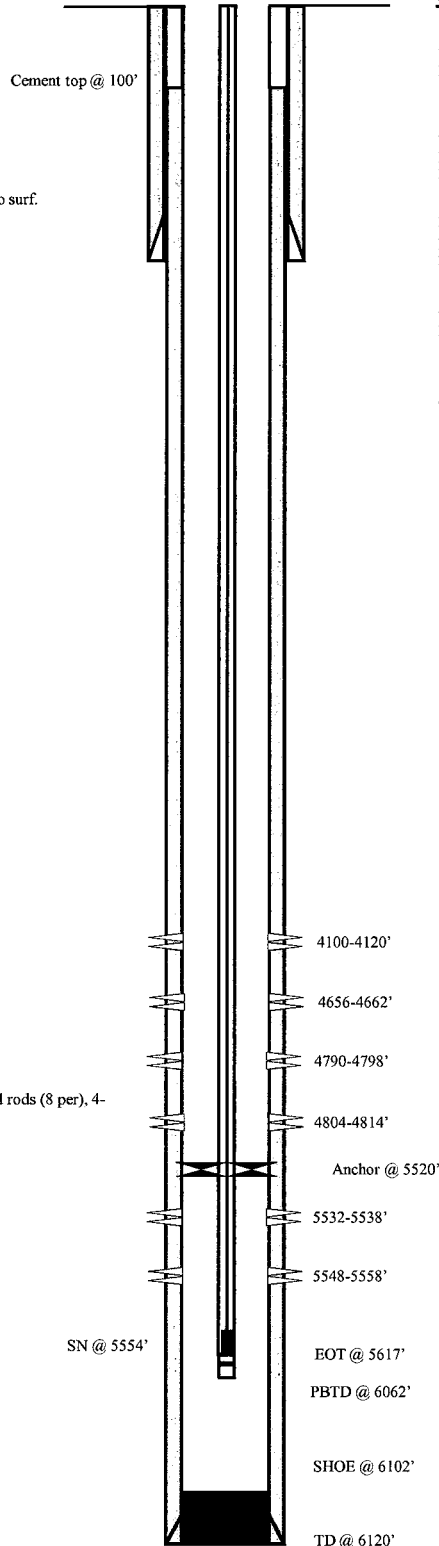
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 178 jts (5508.4')  
TUBING ANCHOR: 5520.4' KB  
NO. OF JOINTS: 1 jt (31.08')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5554.3' KB  
NO. OF JOINTS: 2 jts (62.06')  
TOTAL STRING LENGTH: EOT @ 5617.4'

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' polished rod  
SUCKER RODS: 1-2', 6', 8' x 7/8" pony subs, 217-7/8" guided rods (8 per), 4-1 1/2" wt bars  
PUMP SIZE: 2 1/2" x 1 3/4" x 16' x 20' RHAC rod pump-CDI  
STROKE LENGTH: 122"  
PUMP SPEED, SPM: 4

## Wellbore Diagram

FRAC JOB

12/29/08 5532-5558' Frac CP1 sds as follows:  
40,600#s of 20/40 sand in 653 bbls of Lightning 17 fluid. Broke @ 2970 psi. Treated w/ ave pressure of 1945 psi w/ ave rate of 29.8 BPM. ISIP 2152 psi. Actual flush: 5027 gals.

12/29/08 4790-4814' Frac C sds as follows:  
44,338#s of 20/40 sand in 438 bbls of Lightning 17 fluid. Broke @ 1770 psi. Treated w/ ave pressure of 2065 psi w/ ave rate of 22.8 BPM. ISIP 2226 psi. Actual flush: 4284 gals.

12/29/08 4656-4662' Frac D1 sds as follows:  
24,111#s of 20/40 sand in 340 bbls of Lightning 17 fluid. Broke @ 3208 psi. Treated w/ ave pressure of 2133 psi w/ ave rate of 22.7 BPM. ISIP 2052 psi. Actual flush: 4150 gals.

12/29/08 4100-4120' Frac GB6 sds as follows:  
55,828#s of 20/40 sand in 478 bbls of Lightning 17 fluid. Broke @ 1508 psi. Treated w/ ave pressure of 1706 psi w/ ave rate of 22.8 BPM. ISIP 1891 psi. Actual flush: 4099 gals.

9/18/09

Tubing Leak. Updated rod & tubing details.

PERFORATION RECORD

12/29/08	4100-4120'	4 JSPF	80 holes
12/29/08	4656-4662'	4 JSPF	24 holes
12/29/08	4790-4798'	4 JSPF	32 holes
12/29/08	4804-4814'	4 JSPF	40 holes
12/29/08	5532-5538'	4 JSPF	24 holes
12/29/08	5548-5558'	4 JSPF	24 holes



**Jonah Fed K-15-9-16**

1839' FNL & 820' FEL

SE/NE Section 15-T9S-R16E

Duchesne Co, Utah

API # 43-013-34014 ; Lease # UTU-017985

DF 11/2/09

Jonah Federal 12-14-9-16

Spud Date: 5-28-05  
Put on Production: 7-12-05  
GL: 5682' KB: 5694'

Initial Production: BOPD 118,  
MCFD 7, BWPD 139

Injection Wellbore  
Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (302.88')  
DEPTH LANDED: 314.73' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (5830.79')  
DEPTH LANDED: 5844.04' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 250'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 122 jts (3969.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3981.3' KB  
CE @ 3985.69'  
TOTAL STRING LENGTH: EOT @ 3990' KB

FRAC JOB

6-30-05	5551-5716'	<b>Frac CP3 &amp; CP5 sand as follows:</b> 25908#'s 20/40 sand in 306 bbls Lightning 17 frac fluid. Treated @ avg press of 1599 psi w/avg rate of 25 BPM. ISIP 1775 psi. Calc flush: 5549 gal. Actual flush: 5552 gal.
7-5-05	5007-5119'	<b>Frac A1 &amp; LODC sand as follows:</b> 45,085#'s 20/40 sand in 409 bbls Lightning 17 frac fluid. Treated @ avg press of 1818 psi w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc flush: 5005 gal. Actual flush: 4788 gal.
7-6-05		<b>Frac B2</b> Decision was made to skip Stage #3.
7-6-05	4691-4712'	<b>Frac C, sand as follows:</b> 99846#'s 20/40 sand in 706 bbls Lightning 17 frac fluid. Treated @ avg press of 1733 psi w/avg rate of 25 BPM. ISIP 1750 psi. Calc flush: 4689 gal. Actual flush: 4490 gal.
7-6-05	4556-4565'	<b>Frac D1 sand as follows:</b> 54,984#'s 20/40 sand in 446 bbls Lightning 17 frac fluid. Treated @ avg press of 1773 psi w/avg rate of 25 BPM. ISIP 1820 psi. Calc flush: 4554 gal. Actual flush: 4334 gal.
7-6-05	4008-4067'	<b>Frac GB2 &amp; GB4 sand as follows:</b> 60,730#'s 20/40 sand in 457 bbls Lightning 17 frac fluid. Treated @ avg press of 1425 psi w/avg rate of 25 BPM. ISIP 1650 psi. Calc flush: 4006 gal. Actual flush: 3901 gal.
8-8-05		<b>Pump Change.</b> Update tubing and rod detail.
7/1/08		<b>Pump Change.</b> Updated rod and tbg detail.
01/26/11		<b>Convert to Injection Well</b>
01/31/11		<b>Conversion MIT</b> – updated tbg detail

PERFORATION RECORD

6-30-05	5551-5556'	4 JSPF	20 holes
6-30-05	5711-5716'	4 JSPF	20 holes
7-5-05	5007-5018'	4 JSPF	44 holes
7-2-05	5113-5556'	4 JSPF	24 holes
7-6-05	4847-4856'	4 JSPF	36 holes
7-6-05	4691-4699'	4 JSPF	32 holes
7-6-05	4702-4712'	4 JSPF	40 holes
7-6-05	4556-4565'	4 JSPF	36 holes
7-6-05	4060-4067'	4 JSPF	28 holes
7-6-05	4008-4026'	4 JSPF	72 holes

NEWFIELD

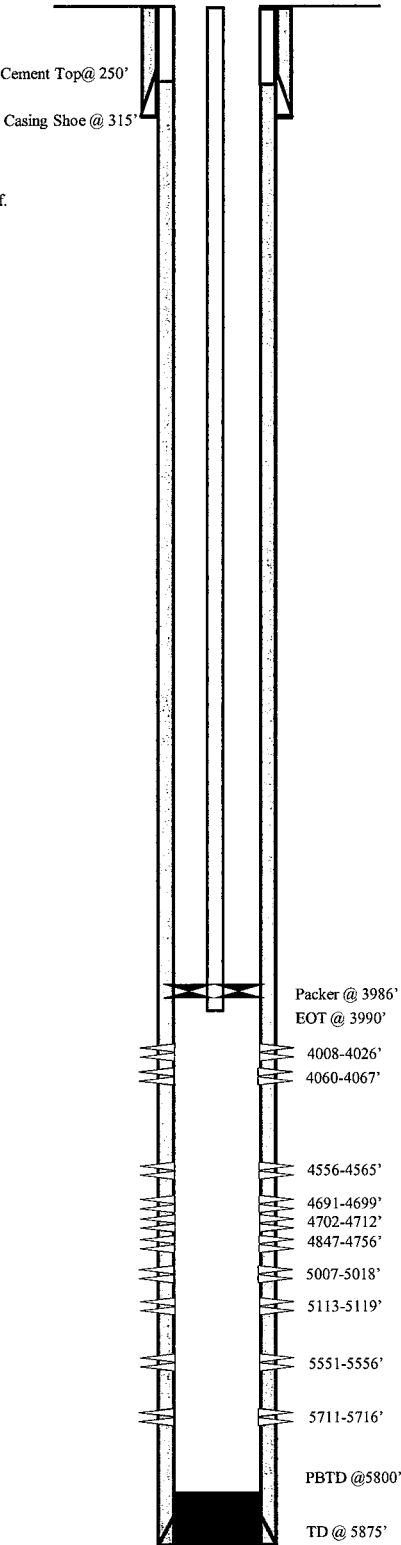
Jonah Federal 12-14-9-16

1816' FSL & 575' FWL

NW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32682; Lease #UTU-096547



## Jonah Federal 13-14-9-16

Initial Production: 171 BOPD,  
14 MCFD, 151 BWPD

Spud Date: 5/21/05  
Put on Production: 7/1/05

GL: 5758' KB: ~~5780'~~ 5770'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (303.95')  
DEPTH LANDED: 313.95' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

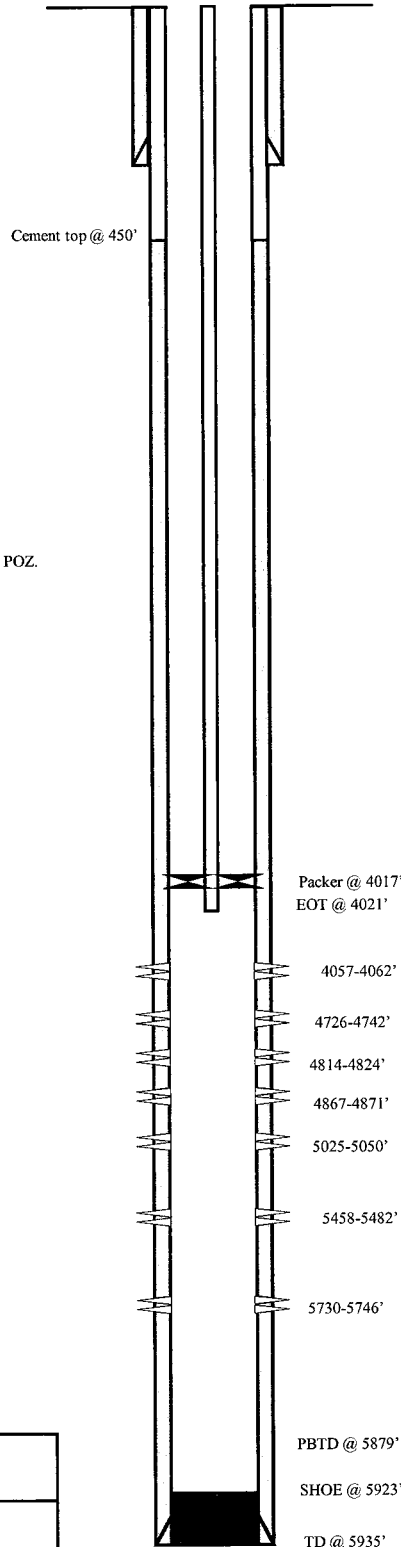
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 137 jts. (5925.19')  
DEPTH LANDED: 5923.19' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 450'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 123 jts (4001.11')  
SN LANDED AT: 1.10' @ 4014.21'  
CE @ 4017.51'  
TOTAL STRING LENGTH: EOT @ 4021.58' w/12' KB

### Injection Wellbore Diagram




### FRAC JOB

6-27-05	5730-5746'	<b>Frac CP5 sands as follows:</b> 58406# 20/40 sand in 503 bbls Lightning 17 frac fluid. Treated @ avg press of 1678 psi w/avg rate of 25 BPM. ISIP 2200 psi. Calc flush: 5728 gal. Actual flush: 5712 gal.
6-27-05	5458-5482'	<b>Frac CP1 sands as follows:</b> 78805# 20/40 sand in 609 bbls Lightning 17 frac fluid. Treated @ avg press of 1654 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 5456 gal. Actual flush: 5462 gal.
6-27-05	5025-5050'	<b>Frac A1/A3 sands as follows:</b> 108479# 20/40 sand in 876 bbls Lightning 17 frac fluid. Treated @ avg press of 1560 psi w/avg rate of 24.7 BPM. ISIP 2300 psi. Calc flush: 5023 gal. Actual flush: 5082 gal.
6-27-05	4814-4871'	<b>Frac B2 &amp; B1 sands as follows:</b> 43548# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 1606 psi w/avg rate of 24.6 BPM. ISIP 2150 psi. Calc flush: 4812 gal. Actual flush: 4872 gal.
6-27-05	4726-4742'	<b>Frac C sands as follows:</b> 68949# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 1590 psi w/avg rate of 24.5 BPM. ISIP 2100 psi. Calc flush: 4724 gal. Actual flush: 4704 gal.
6-27-05	4057-4062'	<b>Frac GB4 sands as follows:</b> 12976# 20/40 sand in 203 bbls Lightning 17 frac fluid. Treated @ avg press of 1956 psi w/avg rate of 24.7 BPM. ISIP 1850 psi. Calc flush: 4055 gal. Actual flush: 4704 gal.
07/07/06		<b>Pump Change:</b> Updated rod and tbg detail.
01-09-07		<b>Pump Change:</b> Updated rod and tbg detail.
10/20/08		<b>Convert to Injection well</b>
10/24/08		<b>MIT Completed - tbg detail updated</b>

### PERFORATION RECORD

6-22-05	5730-5746'	4 JSPF	64 holes
6-27-05	5458-5482'	4 JSPF	96 holes
6-27-05	5025-5050'	4 JSPF	100 holes
6-27-05	4867-4871'	4 JSPF	16 holes
6-27-05	4814-4824'	4 JSPF	40 holes
6-27-05	4726-4742'	4 JSPF	64 holes
6-27-05	4057-4062'	4 JSPF	20 holes


<b>Jonah Federal 13-14-9-16</b> 484' FSL & 688' FWL SW/SW Section 14-T9S-R16E Duchesne Co, Utah API #43-013-32696; Lease #UTU-096547

## Jonah Federal 14-14-9-16

Spud Date: 10-11-05

Put on Production: 11-22-05

GL: 5740' KB: 5752'

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (301.68')

DEPTH LANDED: 312.58' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 130 jts. (5761.28')

DEPTH LANDED: 5774.53' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem. Lite II mixed &amp; 425 sxs 50/50 POZ.

CEMENT TOP AT: 260'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

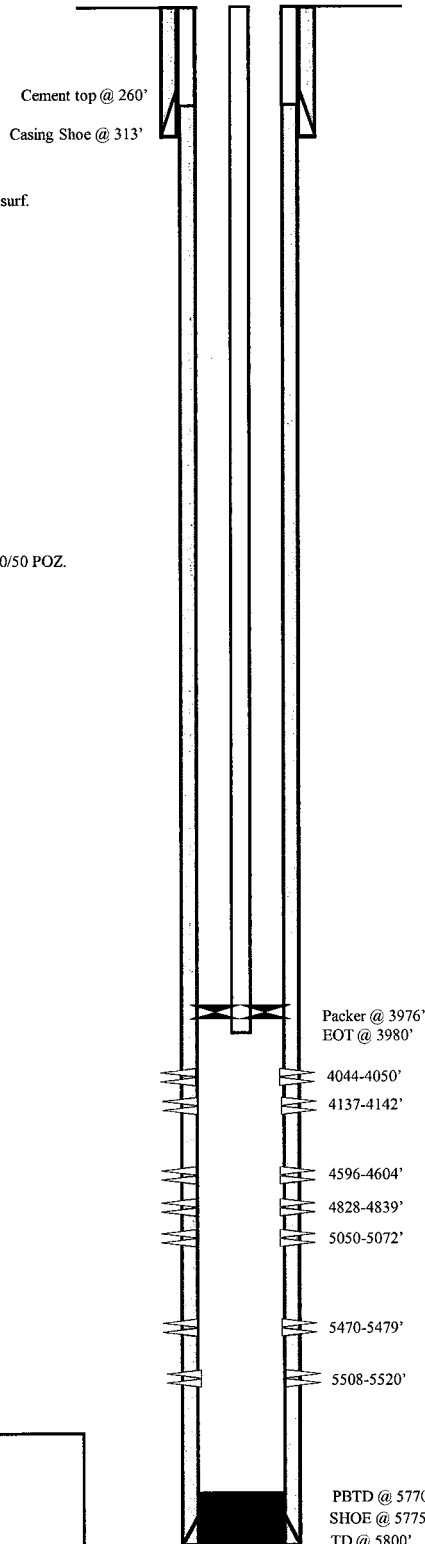
NO. OF JOINTS: 122 jts (3961.3')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3971.3'

CE @ 3975.74'

TOTAL STRING LENGTH: EOT @ 3980'

Injection Wellbore  
DiagramFRAC JOB

11-14-05	5470-5520'	<b>Frac CP1, &amp; CP2 sands as follows:</b> 30835# 20/40 sand in 393 bbls Lightning 17 frac fluid. Treated @ avg press of 2008 psi w/avg rate of 25 BPM. ISIP 1850 psi. Calc flush: 5468 gal. Actual flush: 5460 gal.
11-15-05	5050-5072'	<b>Frac A1 sands as follows:</b> 100886# 20/40 sand in 724 bbls Lightning 17 frac fluid. Treated @ avg press of 1800 psi w/avg rate of 25.1 BPM. ISIP 2130 psi. Calc flush: 5048 gal. Actual flush: 5082 gal.
11-15-05	4828-4839'	<b>Frac B1 sands as follows:</b> 70362# 20/40 sand in 537 bbls Lightning 17 frac fluid. Treated @ avg press of 1905 psi w/avg rate of 25.1 BPM. ISIP 2060 psi. Calc flush: 4826 gal. Actual flush: 4872 gal.
11-15-05	4596-4604'	<b>Frac D1 sands as follows:</b> 28955# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 1758 w/avg rate of 14.5 BPM. ISIP 1900 psi. Calc flush: 4594 gal. Actual flush: 4518 gal.
11-15-05	4044-4142'	<b>Frac GB4, &amp; GB6 sands as follows:</b> 31600# 20/40 sand in 333 bbls Lightning 17 frac fluid. Treated @ avg press of 1790 w/avg rate of 25.1 BPM. ISIP 1770 psi. Calc flush: 4042 gal. Actual flush: 3948 gal.
05/02/07		<b>Tubing Leak</b> - Rod & Tubing detail updated.
09/11/07		<b>Tubing Leak</b> - Rod & Tubing detail updated.
7-21-08		<b>Tubing Leak.</b> Updated rod & tubing details.
1/29/10		<b>Parted rods.</b> Updated rod and tubing detail.
05/04/11		<b>Convert to Injection well</b>
05/18/11		<b>Conversion MIT Finalized</b> - update tbg detail

PERFORATION RECORD

11-10-05	5508-5520'	4 JSPF	48 holes
11-10-05	5470-5479'	4 JSPF	36 holes
11-14-05	5050-5072'	4 JSPF	88 holes
11-15-05	4828-4839'	4 JSPF	44 holes
11-15-05	4596-4604'	4 JSPF	32 holes
11-15-05	4137-4142'	4 JSPF	20 holes
11-15-05	4044-4050'	4 JSPF	24 holes



## Jonah Federal 14-14-9-16

507' FSL &amp; 1684' FWL

SE/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32697; Lease #UTU-096547

## Jonah Fed Q-14-9-16

Spud Date: 12/6/2008  
 Put on Production: 1/26/2009  
 GL: 5760' KB: 5772'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (317.16')  
 DEPTH LANDED: 327.16'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G", circ. 0 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 160 jts (6166.10')  
 DEPTH LANDED: 6164.10'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sx Primlite II & 400 sx 50/50 poz, circ. 26 bbls to surf.  
 CEMENT TOP: 148' per CBL 1/9/09

TUBING (KS 7-31-09)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5602.2')  
 TUBING ANCHOR: 5614.2'  
 NO. OF JOINTS: 1 jt (31.10')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5648.10'  
 NO. OF JOINTS: 2 jts (63.20')  
 TOTAL STRING LENGTH: EOT @ 5713'

SUCKER RODS (KS 7-31-09)

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 2', 2', 8' x 7/8" Pony Rods, 221 x 7/8" 8per Guided Rods, 4 x 1-1/2" Sinker Bars  
 PUMP SIZE: 2-1/2" x 1-3/4" x 16" x 20" RHAC  
 STROKE LENGTH: 124"  
 PUMP SPEED, SPM: 5.5  
 PUMPING UNIT: DARCO C-456-305-144

FRAC JOB

1/14/09 5636-5650' RU BJ & frac CP1 sds as follows:  
 50,262# 20/40 sand in 471 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2162 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2289. Actual flush: 5170 gals.

1/14/09 5320-5332' RU BJ & frac stage #2 sds as follows:  
 40,638# 20/40 sand in 420 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3291 @ ave rate of 26 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2861. Actual flush: 4876 gals.

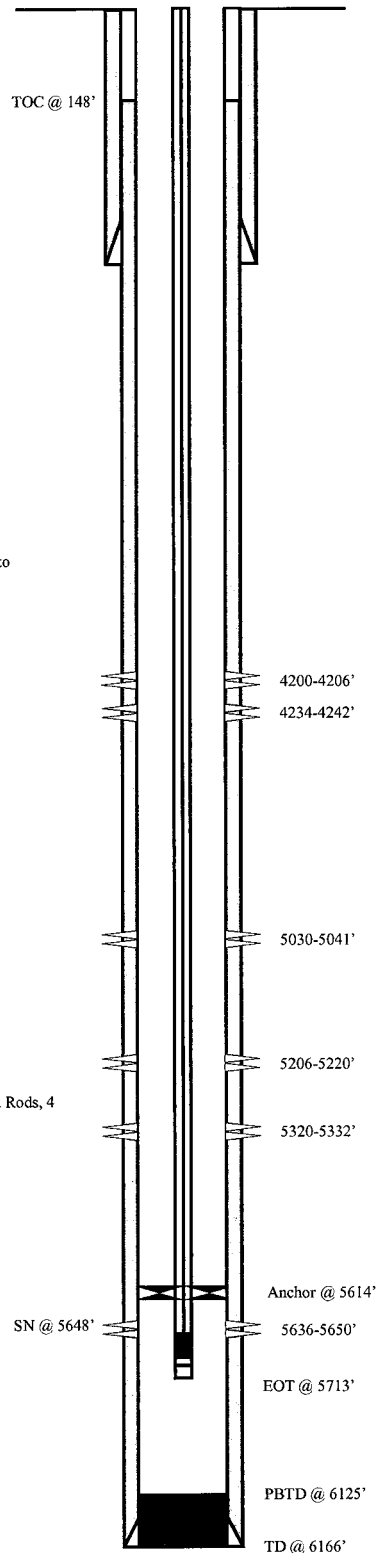
1/14/09 5206-5220' RU BJ & frac stage #3 sds as follows:  
 55,182# 20/40 sand in 496 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1944 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2459. Actual flush: 4741 gals.

1/14/09 5030-5041' RU BJ & frac stage #4 sds as follows:  
 40,414# 20/40 sand in 408 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1814 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1987. Actual flush: 4523 gals.

1/15/09 4200-4242' RU BJ & frac stage #5 sds as follows:  
 38,064# 20/40 sand in 381 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1964 @ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 2122. Actual flush: 4116 gals.

8/5/09

Parted rods. Updated rod &amp; tubing detail.

PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
1/15/09	4200-4206'	4 JSPF	24 holes
1/15/09	4234-4242'	4 JSPF	32 holes
1/14/09	5030-5041'	4 JSPF	44 holes
1/14/09	5206-5220'	4 JSPF	56 holes
1/15/09	5320-5332'	4 JSPF	48 holes
1/15/09	5636-5650'	4 JSPF	56 holes



Jonah Q-14-9-16

478' FSL &amp; 703' FWL

SW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34041; Lease # UTU-096547

KS 7/17/12



## JONAH P-14-9-16

Spud Date: 10/19/2010

PWOP: 12/14/2010

GL: 5707' KB: 5719'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 8 jts. (336.56')

DEPTH LANDED: 346.41' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 180 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 143 jts. (6034.18')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 6047.43' KB

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 430 sxs 50/50 POZ.

CEMENT TOP AT: 50'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 187 jts. (5744.2')

TUBING ANCHOR: 5744.2' KB

NO. OF JOINTS: 1 jt. (31.5')

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT: 5778.4' KB

NO. OF JOINTS: 2 jts. (62.8')

NOTCHED COLLAR: 5842.3' KB

TOTAL STRING LENGTH: EOT @ 5843'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod

SUCKER RODS: 1 - 7/8" x 2' Pony Rod, 1 - 7/8" x 4' Pony Rod, 1 - 7/8" x 6' Pony Rod, 1 - 7/8" x 8' Pony Rod, 225 - 7/8" 8per Guided Rods (5625'), 4 - 1 1/2" Sinker Bars (100')

PUMP SIZE: 2 1/2" x 1 3/4" x 21' x 24' RHAC

STROKE LENGTH: 144"

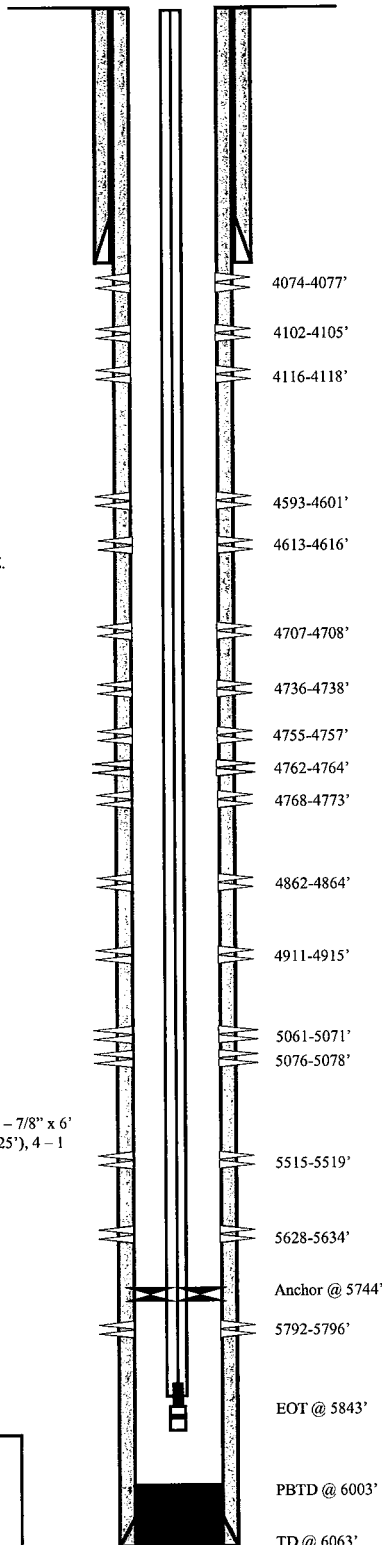
PUMP SPEED: 5 SPM

FRAC JOB

11/30/2010	5515-5796'	<b>Frac CP1, CP3 &amp; CP5, sands as follows:</b> Frac with 20407# 20/40 brown sand in 328 bbls lightning 17 fluid; 501 bbls total fluid to recover.
12/08/2010	5061-5078'	<b>Frac A1, sands as follows:</b> Frac with 35843# 20/40 brown sand in 242 bbls lightning 17 fluid; 382 bbls total fluid to recover.
12/08/2010	4862-4915'	<b>Frac B1 &amp; B2, sands as follows:</b> Frac with 20423# 20/40 brown sand in 176 bbls lightning 17 fluid; 308 bbls total fluid to recover.
12/08/2010	4707-4773'	<b>Frac C &amp; D3, sands as follows:</b> Frac with 65441# 20/40 brown sand in 406 bbls lightning 17 fluid; 531 bbls total fluid to recover.
12/08/2010	4593-4616'	<b>Frac D1, sands as follows:</b> Frac with 40177# 20/40 brown sand in 269 bbls lightning 17 fluid; 391 bbls total fluid to recover.
12/08/2010	4074-4118'	<b>Frac GB4 &amp; GB6, sands as follows:</b> Frac with 32391# 20/40 brown sand in 226 bbls lightning 17 fluid; 338 bbls total fluid to recover.

PERFORATION RECORD

5792-5796'	3 JSPF	12 holes
5628-5634'	3 JSPF	18 holes
5515-5519'	3 JSPF	12 holes
5076-5078'	3 JSPF	6 holes
5061-5071'	3 JSPF	30 holes
4911-4915'	3 JSPF	12 holes
4862-4864'	3 JSPF	6 holes
4768-4773'	3 JSPF	15 holes
4762-4764'	3 JSPF	6 holes
4755-4757'	3 JSPF	6 holes
4736-4738'	3 JSPF	6 holes
4707-4708'	3 JSPF	3 holes
4613-4616'	3 JSPF	9 holes
4593-4601'	3 JSPF	24 holes
4116-4118'	3 JSPF	6 holes
4102-4105'	3 JSPF	9 holes
4074-4077'	3 JSPF	9 holes

**NEWFIELD****Jonah P-14-9-16**

513'FSL &amp; 510' FEL (SE/SE)

Section 15, T9S, R16E

Duchesne County, Utah

API #43-013-34124; Lease # UTU-017985

## Jonah 15-15-9-16

Spud Date: 01/07/06  
Put on Production: 02/07/06  
GL: 5758' KB: 5770'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.55')  
DEPTH LANDED: 323.40' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 139 jts. (5874.99')  
DEPTH LANDED: 5874.24' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP @ 130

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 123 jts (4000.93')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4014.03'  
TOTAL STRING LENGTH: EOT @ 4021.42'

Injection Wellbore  
Diagram

CEMENT TOP @ 130

Packer @ 4017'  
EOT @ 4021'

4053-4059'  
4186-4190'  
4646-4657'

4700-4708'  
4818-4823'  
4830-4835'  
4978-4983'  
5481-5494'  
5678-5685'  
5716-5722'

PBTD @ 5824'  
SHOE @ 5874'  
TD @ 5885'

**FRAC JOB**

01/31/06	5678-5722'	<b>Frac CP4, CP5 sands as follows:</b> 30113# 20/40 sand in 388 bbls Lightning 17 frac fluid. Treated @ avg press of 1859 psi w/avg rate of 25.2 BPM. ISIP 2050 psi. Calc flush: 5676 gal. Actual flush: 5141 gal.
01/31/06	5481-5494'	<b>Frac CP2 sands as follows:</b> 50320# 20/40 sand in 436 bbls Lightning 17 frac fluid. Treated @ avg press of 1616 psi w/avg rate of 25.2 BPM. ISIP 1900 psi. Calc flush: 5479 gal. Actual flush: 4872 gal.
01/31/06	4978-4983'	<b>Frac A3 sands as follows:</b> 19771# 20/40 sand in 295 bbls Lightning 17 frac fluid. Treated @ avg press of 2420 psi w/avg rate of 25.3 BPM. ISIP 2150 psi. Calc flush: 4976 gal. Actual flush: 4452 gal.
01/31/06	4818-4835'	<b>Frac B2 sands as follows:</b> 25033# 20/40 sand in 331 bbls Lightning 17 frac fluid. Treated @ avg press of 1958 psi w/avg rate of 25 BPM. ISIP 1850 psi. Calc flush: 4816 gal. Actual flush: 4284 gal.
01/31/06	4646-4657'	<b>Frac D3, C, sands as follows:</b> 98438# 20/40 sand in 701 bbls Lightning 17 frac fluid. Treated @ avg press of 2161 psi w/avg rate of 25.1 BPM. ISIP 2300 psi. Calc flush: 4644 gal. Actual flush: 4074 gal.
02/01/06	4186-4190'	<b>Frac PB7 sands as follows:</b> 19753# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2643 psi w/avg rate of 24.8 BPM. ISIP 2650 psi. Calc flush: 4184 gal. Actual flush: 3654 gal.
02/01/06	4053-4059'	<b>Frac GB6 sands as follows:</b> 17961# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2240 psi w/avg rate of 25 BPM. ISIP 1900 psi. Calc flush: 4051 gal. Actual flush: 3948 gal.
04/13/07	7/30/07	<b>Pump Change</b> Update Rod & Tubing Pump change. Updated rod & tubing detail.
05-21-08		<b>Workover.</b> Updated rod and tubing detail
10/16/08		<b>Well converted to an Injection well.</b>
10/28/08		<b>MIT completed and submitted.</b>

**PERFORATION RECORD**

01/27/06	5716-5722'	4 JSPF	24 holes
01/27/06	5678-5685'	4 JSPF	28 holes
01/31/06	5481-5494'	4 JSPF	52 holes
01/31/06	4978-4983'	4 JSPF	20 holes
01/31/06	4830-4835'	4 JSPF	20 holes
01/31/06	4818-4828'	4 JSPF	20 holes
01/31/06	4700-4708'	4 JSPF	32 holes
01/31/06	4646-4657'	4 JSPF	44 holes
01/31/06	4186-4190'	4 JSPF	16 holes
02/01/06	4053-4059'	4 JSPF	24 holes

**NEWFIELD****Jonah 15-15-9-16**

421' FSL &amp; 1864' FEL

SW/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32753; Lease #UTU-17985

## FEDERAL 3-23-9-16

Spud Date: 01/08/08

Put on Production: 03/07/08

GL:5680' KB:5692'

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (284.85')

DEPTH LANDED: 296.70' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 130 jts. (5811.31')

DEPTH LANDED: 5781.17' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 poz

CEMENT TOP: 92'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 124 jts (3889.7')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3901.7' KB

ON/OFF TOOL AT: 3902.8'

ARROW #1 PACKER CE AT: 3907'

XO 2-3/8 x 2-7/8 J-55 AT: 3911.6'

TBG PUP 2-3/8 J-55 AT: 3912.1'

X/N NIPPLE AT: 3916.1'

TOTAL STRING LENGTH: EOT @ 3917.5'

FRAC JOB

02/28/08 4937-4949'

**Frac A3 sands as follows:**

60177# 20/40 sand in 519 bbls Lightning 17 frac fluid. Treated @ avg press of 2021 psi w/avg rate of 23.3 BPM. ISIP 2150 psi.

02/28/08 4739-4748'

**Frac B2 sands as follows:**

40603# 20/40 sand in 407 bbl Lightning 17 frac fluid. Treated @ avg press of 1923 psi w/avg rate of 23.2 BPM. ISIP 1964 psi.

02/28/08 4612-4621'

**Frac C sands as follows:**

25535# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 2360 psi w/avg rate of 23.1 BPM. ISIP 2760 psi.

02/28/08 4477-4484'

**Frac D1 sands as follows:**

20500# 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 2099 psi w/avg rate of 23.2 BPM. ISIP 2016 psi.

02/28/08 3956-3968'

**Frac GB4 sands as follows:**

23017# 20/40 sand in 301 bbls Lightning 17 frac fluid. Treated @ avg press of 1777 psi w/avg rate of 23.0 BPM. ISIP 1817 psi.

10/11/11

**Parted Rods.** Updated rod & tubing detail.

11/20/12

**Convert to Injection Well**

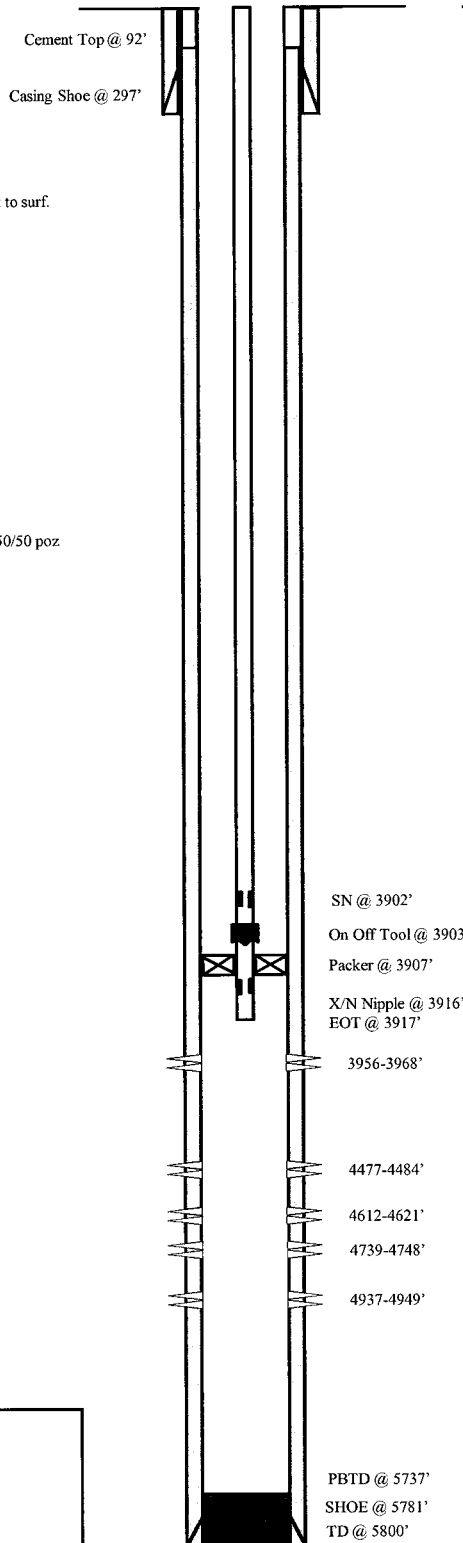
11/21/12

**Conversion MIT Finalized** – update tbg detailPERFORATION RECORD

4937-4949'	4 JSPF	48 holes
4739-4748'	4 JSPF	36 holes
4612-4621'	4 JSPF	36 holes
4477-4484'	4 JSPF	28 holes
3956-3968'	4 JSPF	48 holes

**FEDERAL 3-23-9-16**

586' FNL & 1849' FWL  
NE/NW Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33176; Lease #UTU-15855



## Federal 4-23-9-16

Spud Date: 01-09-08  
Put on Production: 3-10-08  
GL: 5716' KB: 5728'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.55')  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133jts. (5715.22')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5728.47'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 134'

TUBING

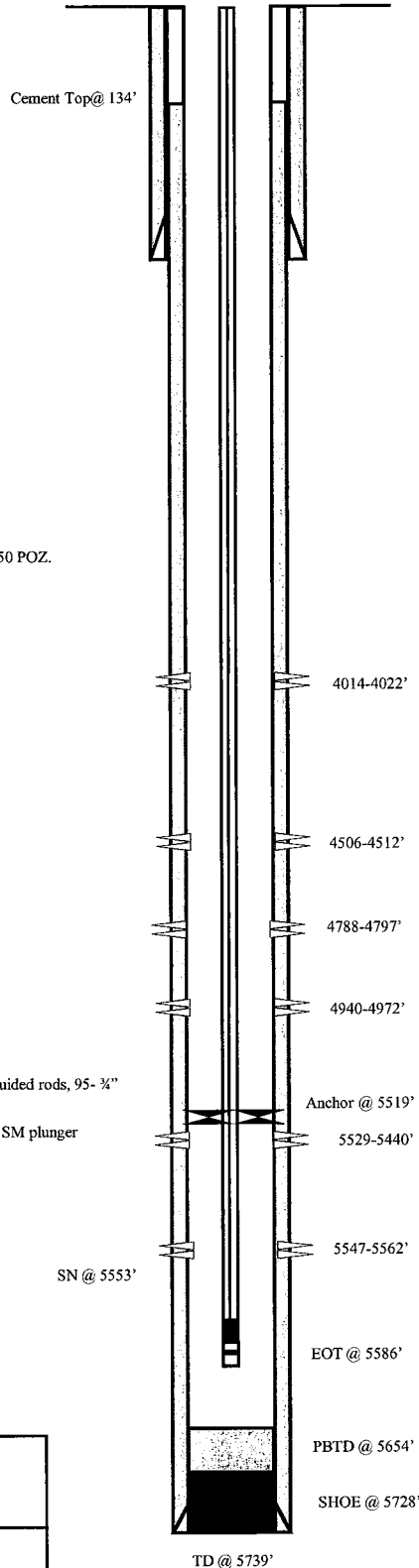
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5507.16')  
TUBING ANCHOR: 5519.16'  
NO. OF JOINTS: 1 jts (31.39')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5553.35' KB  
NO. OF JOINTS: 1 jts (31.48')  
TOTAL STRING LENGTH: EOT @ 5586.38' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 1-6', 1-4' & 1-2' X 3/4" ponies, 100-3/4" guided rods, 95- 3/4" plain rods, 20-3/4" guided rods, 6- 1 1/2" weighted bars.  
PUMP SIZE: 2-1/2" x 1-1/2" x 12' X 15.5' RHAC pump w/ SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM:4

FRAC JOB

2-29-08	5547-5562'	<b>Frac CP4 sands as follows:</b> Frac with 40523# 20/40 sand in 434 bbls Lightning 17 fluid. Treat at an ave pressure of 1786 psi @ 23.2 BPM. ISIP 1970 psi.
2-29-08	5429-5440'	<b>Frac CP2 sands as follows:</b> Frac with 20386 # 20/40 sand in 333 bbls Lightning 17 fluid. Treat at an ave pressure of 1963 psi @ 25 BPM. ISIP 1840 psi.
2-29-08	4940-4972'	<b>Frac A1 sands as follows:</b> Frac with 120556 #'s 20/40 sand in 869 bbls Lightning 17 fluid. Treat at an ave pressure of 1845 psi @ 24.5 BPM. ISIP 2105 psi.
2-29-08	4788-4797'	<b>Frac B2 sand as follows:</b> Frac with 50665 #'s of 20/40 sand in 450 bbls Lightning 17 fluid. Treat at an ave pressure of 1990 psi @ 24.5 BPM. ISIP 1945 psi.
2-29-08	4506-4512'	<b>Frac D1 sands as follows:</b> Frac with 15200 #'s 20/40 sand in 259 bbls Lightning 17 fluid. Treat at an ave pressure of 1942 psi @ 24.3 BPM. ISIP 1825 psi.
2-29-08	4014-4022'	<b>Frac GB6 sands as follows:</b> Frac with 40122 #'s 20/40 sand in 384 bbls Lightning 17 fluid. Treat at an ave pressure of 2036 psi @ 24.3 BPM. ISIP 1880 psi.

PERFORATION RECORD

4014-4022'	4 JSPF	32 holes
4506-4512'	4 JSPF	24 holes
4788-4797'	4 JSPF	36 holes
4940-4972'	4 JSPF	128 holes
5429-5440'	4 JSPF	44 holes
5547-5562'	4 JSPF	60 holes

**NEWFIELD**

**Federal 4-23-9-16**  
499' FNL & 685' FWL  
NWNW Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33177; Lease #UTU-15855

Spud Date: 12-26-05  
 Put on Production: 01-19-06  
 GL: 5742' KB: 5754'

## Federal 1-22-9-16

Injection Wellbore  
DiagramSURFACE CASING

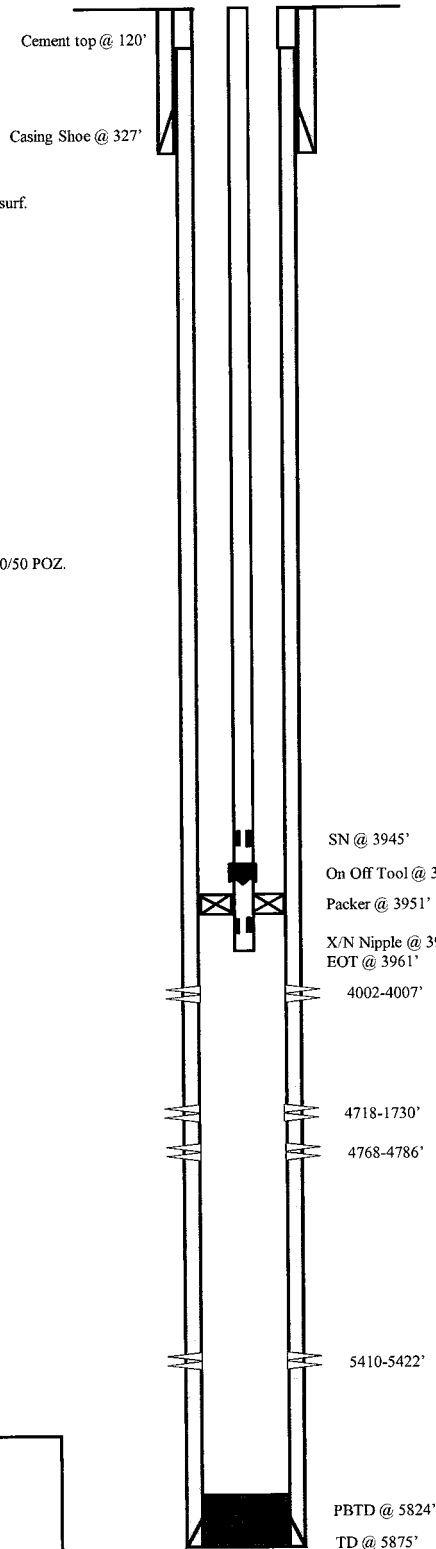
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (315.48')  
 DEPTH LANDED: 327.33' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (5871.28')  
 DEPTH LANDED: 5869.78' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 400 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jts (3933.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3945.1' KB  
 ON/OFF TOOL AT: 3946.2'  
 ARROW #1 PACKER CE AT: 3951'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3955.2'  
 TBG PUP 2-3/8 J-55 AT: 3955.8'  
 X/N NIPPLE AT: 3959.9'  
 TOTAL STRING LENGTH: EOT @ 3961'

FRAC JOB

01-16-06 5410-5422' **Frac CP2, sands as follows:**  
 45584# 20/40 sand in 483 bbls Lightning 17  
 frac fluid. Treated @ avg press of 2087 psi  
 w/avg rate of 25 BPM. ISIP 2130 psi. Calc  
 flush: 5408 gal. Actual flush: 4788 gal.

01-16-06 4718-4730' **Frac B2, & B1 sands as follows:**  
 124027# 20/40 sand in 851 bbls Lightning 17  
 frac fluid. Treated @ avg press of 1490 psi  
 w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc  
 flush: 4716 gal. Actual flush: 4116 gal.

01-16-06 4002-4007' **Frac GB6 sands as follows:**  
 23163# 20/40 sand in 305 bbls Lightning 17  
 frac fluid. Treated @ avg press of 1785 psi  
 w/avg rate of 14.5 BPM. ISIP 2080 psi. Calc  
 flush: 4000 gal. Actual flush: 3877 gal.

03/22/06 **Pump Change.** Update rod and tubing details.  
 9-3-08 **Pump Change.** Updated rod & tubing details.  
 7/21/09 **Tubing Leak.** Updated rod & tubing details.  
 01/13/2011 **Pump Change.** Rod & tubing detail updated.  
 11/14/12 **Convert to Injection Well**  
 11/16/12 **Conversion MIT Finalized** – update tbg  
 detail

PERFORATION RECORD

01-11-06	5410-5422'	4 JSPF	48 holes
01-16-06	4768-4786'	4 JSPF	72 holes
01-16-06	4718-4730'	4 JSPF	48 holes
01-16-06	4002-4007'	4 JSPF	20 holes



**Federal 1-22-9-16**  
 887' FNL & 963' FEL  
 NE/NE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32612; Lease #UTU-74392

## FEDERAL 2-22-9-16

Spud Date: 05/23/07  
 Put on Production: 07/03/07  
 GL: 5860' KB: 5872'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.90')  
 DEPTH LANDED: 314.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, cir 6 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5894.51')  
 DEPTH LANDED: 5893.76' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 57' per CBL 6/25/07

TUBING (GI 4/9/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 178 jts. (5519.9')  
 TUBING ANCHOR: 5531.9'  
 NO. OF JOINTS: 1 jts (31.40')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5566.10'  
 NO. OF JOINTS: 1 jt. (29.80')  
 PBGA: 3-1/2" (5.4')  
 NO. OF JOINTS: 3 jts (94.7')  
 PBGA: 2-7/8" (0.7')  
 TOTAL STRING LENGTH: EOT @ 5698'

SUCKER RODS (GI 4/9/12)

POLISHED ROD: 1-1/2" x 22' polish rod  
 SUCKER RODS: 131 x 3/4" guided rods(4per), 47 x 3/4" sucker rods, 37 x 3/4" guided rods(4per), 6 x 1-1/2" Sinker bars, 6 x 1" Stabilizer rod  
 PUMP SIZE: 2-1/2" x 1-1/4" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5  
 PUMPING UNIT: Weatherford C-228-213-86

FRAC JOB

06/27/07 5755-5790' **Frac CP5 sands as follows:**  
 60101# 20/40 sand in 501 bbls Lightning 17 frac fluid. Treated @ avg press of 1583 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5753 gal. Actual flush: 5166 gal.

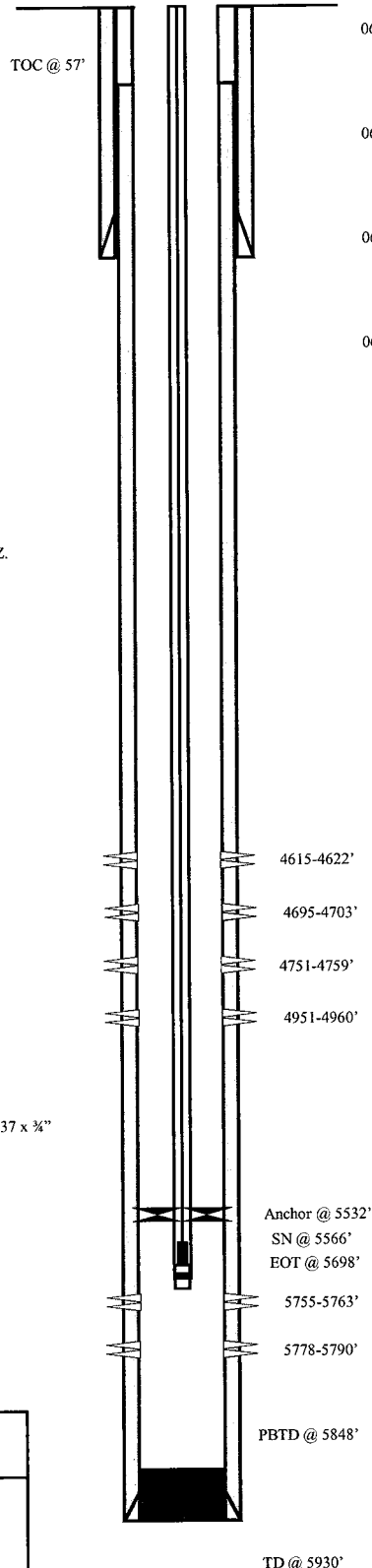
06/27/07 4951-4960' **Frac A.5 sands as follows:**  
 39988# 20/40 sand in 382 bbls Lightning 17 frac fluid. Treated @ avg press of 2087 psi w/avg rate of 24.7 BPM. ISIP 2525 psi. Calc flush: 4898 gal. Actual flush: 4360 gal.


06/27/07 4695-4759' **Frac D3 & C sands as follows:**  
 57108# 20/40 sand in 466 bbls Lightning 17 frac fluid. Treated @ avg press of 2290 psi w/avg rate of 24.7 BPM. ISIP 3228 psi. Calc flush: 4693 gal. Actual flush: 4158 gal.

06/29/07 4615-4622' **Frac D1 sands as follows:**  
 9646# 20/40 sand in 210 bbls Lightning 17 frac fluid. Treated @ avg press of 2799 psi w/avg rate of 24.7 BPM. ISIP 1928 psi. Calc flush: 4613 gal. Actual flush: 4536 gal.

PERFORATION RECORD

06/25/07	5778-5790'	4 JSPF	48 holes
06/25/07	5755-5763'	4 JSPF	32 holes
06/27/07	4951-4960'	4 JSPF	36 holes
06/27/07	4751-4759'	4 JSPF	32 holes
06/27/07	4695-4703'	4 JSPF	32 holes
06/27/07	4615-4622'	4 JSPF	28 holes




<b>FEDERAL 2-22-9-16</b> 645'FNL & 1878' FEL NW/NE Section 22-T9S-R16E Duchesne Co, Utah API #43-013-32958; Lease # UTU-64379

## Federal 8-22-9-16

Spud Date: 11/01/06  
Put on Production: 12/13/06  
K.B.: 5791, G.L.: 5779

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (310.68')  
DEPTH LANDED: 322.53' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5837.43')  
DEPTH LANDED: 5850.68' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 322 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 60'

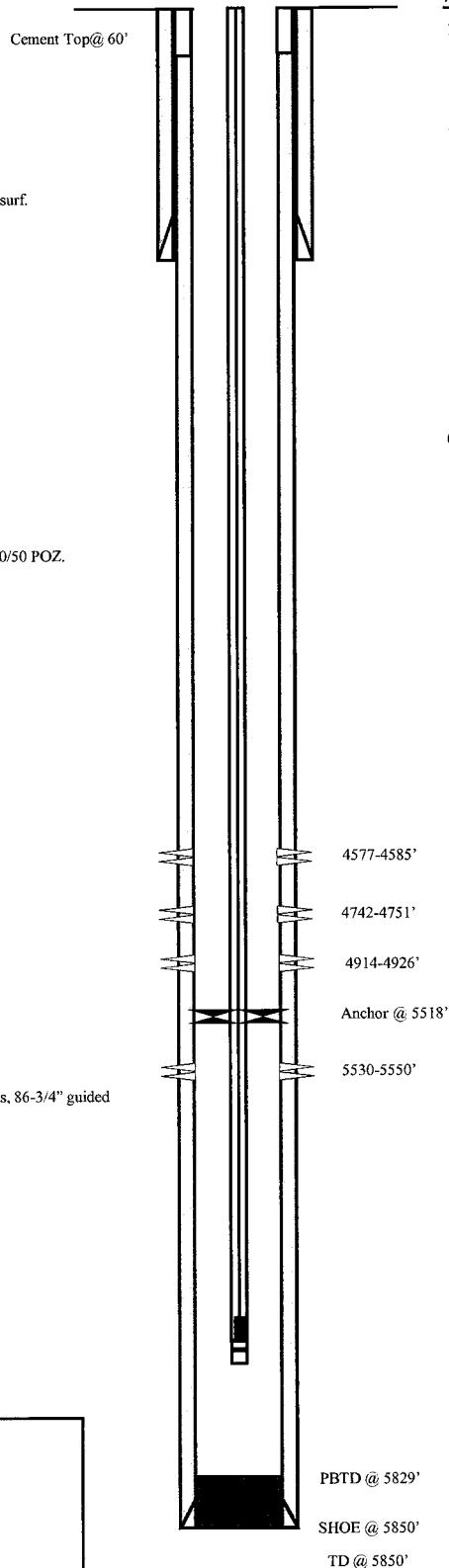
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5517.93')  
TUBING ANCHOR: 5517.90' KB  
NO. OF JOINTS: 1 jts (31.70')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5552.4' KB  
NO. OF JOINTS: 2 jts (63.10')  
TOTAL STRING LENGTH: EOT @ 5617' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 2-8' x 3/4" pony rod, 100-3/4" guided rods, 86-3/4" guided rods, 30-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 14" RHAC w/SM plunger  
STROKE LENGTH: 61"  
PUMP SPEED, 5 SPM:

## Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

**FRAC JOB**

12/08/06	5530-5550'	<b>Frac CP4, sands as follows:</b> 30245# 20/40 sand in 381 bbls Lightning 17 frac fluid. Treated @ avg press of 2020 psi w/avg rate of 25 BPM. ISIP 1960 psi. Calc flush: 5548 gal. Actual flush: 4998 gal.
12/08/06	4914-4926'	<b>Frac A1 sands as follows:</b> 70951# 20/40 sand in 533 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 25 BPM. ISIP 2190 psi. Calc flush: 4924 gal. Actual flush: 4452 gal.
12/08/06	4742-4751'	<b>Frac B2 sands as follows:</b> 29729# 20/40 sand in 414 bbls Lightning 17 frac fluid. Treated @ avg press of 2490 psi w/avg rate of 25 BPM. ISIP 1950 psi. Calc flush: 4749 gal. Actual flush: 4242 gal.
12/08/06	4577-4585'	<b>Frac C sands as follows:</b> 26560# 20/40 sand in 342 bbls Lightning 17 frac fluid. Treated @ avg press of 2804 psi w/avg rate of 25 BPM. ISIP psi. Calc flush: 4583 gal. Actual flush: 4242 gal.
07/16/10		Pump Change. Rod & Tubing detail.

**PERFORATION RECORD**

12/05/06	5530-5550'	4 JSPF	80 holes
12/08/06	4914-4926'	4 JSPF	48 holes
12/08/06	4742-4751'	4 JSPF	36 holes
12/08/06	4577-4585'	4 JSPF	32 holes



**Federal 8-22-9-16**

2200' FNL & 618' FEL

SE/NE Section 22-T9S-R16E

Duchesne Co, Utah

API #43-013-32959; Lease #UTU-64379

TW 09/14/10



# NEWFIELD



## GMBU R-15-9-16

Monument Butte - Duchesne County, Utah, USA

Surf Location: NW/SE - Sec 15, T9S, R16E; 2296' FSL & 1811' FEL

5747' GL + 10' KB

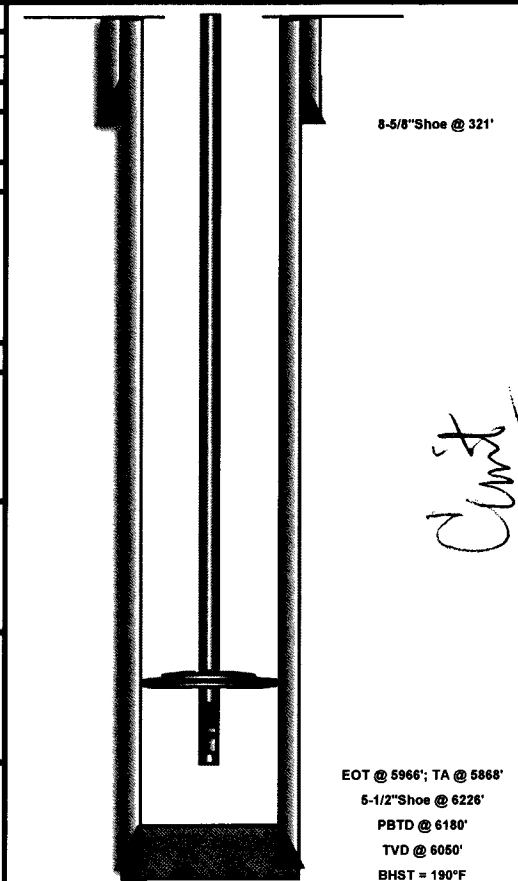
API#: 43-013-51150; Lease#: UTU-017985

Paul Lembcke

DLB 5/10/13

Spud Date: 2/7/13; PoP Date: 3/29/13

Casing Detail	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	321'	8.625	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
	Prod	10'	6,226'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TBG Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,966'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	5,868'	
ROD DETAIL	Component			Top	Bottom	Size	Grade	Length	Count	Pump			
	Pony Rod				2'	7/8"	Tenaris D78	2'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,896'			
	Polish Rod			2'	32'	1 1/2"	4140	30'	1				
	Pony Rod			32'	46'	7/8"	Tenaris D78	14'	1				
	4per Guided Rod			46'	2,021'	7/8"	Tenaris D78	1,975'	79				
	4per Guided Rod			2,021'	5,146'	3/4"	Tenaris D78	3,125'	125				
	8per Guided Rod			5,146'	5,896'	7/8"	Tenaris D78	750'	30				
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
4	4,812'	4,816'	3	0.34	3/14/2013	Formation:	D3						
						20/40 White:	42,047 lbs	15% HCl:	0 gals				
						Pad:	2,570 gals	Treating Fluid:	9,847 gals				
						Flush:	4,817 gals	Load to Recover:	17,234 gals				
						ISIP=	1.053 psi/ft	Max STP:	3,463 psi				
3	4,946'	4,948'	3	0.34	3/14/2013	Formation:	B2	B1					
	4,952'	4,954'	3	0.34	3/14/2013	20/40 White:	45,250 lbs	15% HCl:	504 gals				
	4,994'	4,996'	3	0.34	3/14/2013	Pad:	2,335 gals	Treating Fluid:	12,401 gals				
						Flush:	4,864 gals	Load to Recover:	20,104 gals				
						ISIP=	0.887 psi/ft	Max STP:	2,963 psi				
2	5,138'	5,140'	3	0.34	3/14/2013	Formation:	A3	A1					
	5,152'	5,154'	3	0.34	3/14/2013	20/40 White:	37,155 lbs	15% HCl:	504 gals				
	5,158'	5,160'	3	0.34	3/14/2013	Pad:	2,197 gals	Treating Fluid:	8,871 gals				
						Flush:	5,195 gals	Load to Recover:	16,767 gals				
						ISIP=	0.857 psi/ft	Max STP:	3,273 psi				
1	5,648'	5,649'	3	0.34	3/14/2013	Formation:	CP5	CP2					
	5,656'	5,658'	3	0.34	3/14/2013	20/40 White:	53,233 lbs	15% HCl:	756 gals				
	5,664'	5,665'	3	0.34	3/14/2013	Pad:	8,165 gals	Treating Fluid:	11,671 gals				
	5,894'	5,896'	3	0.34	3/14/2013	Flush:	5,624 gals	Load to Recover:	25,964 gals				
						ISIP=	0.745 psi/ft	Max STP:	3,464 psi				
CEMENT	Surf	On 2/7/13 BJ cemented 8 5/8" casing w/ 175 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 1 bbls to the pit.											
	Prod	On 2/25/13 Halliburton pumped 260 sks lead @ 11 ppg w/ 2.7 yield plus 460 sks tail @ 14.4 ppg w/ 1.21 yield. Returned 47 bbls to the pit. TOC @ 424'.											



*Handwritten notes:*  
 Casing  
 8-5/8" Shoe @ 321'  
 EOT @ 5966'; TA @ 5868'  
 5-1/2" Shoe @ 6226'  
 PBTD @ 6180'  
 TVD @ 6050'  
 BHST = 190°F

**NEWFIELD****GMBU S-15-9-16**

Monument Butte - Duchesne County, Utah, USA

Surf Location: NW/SE - Sec 15, T9S, R10E; 2314' FSL &amp; 1799' FEL

5747' GL + 10' KB

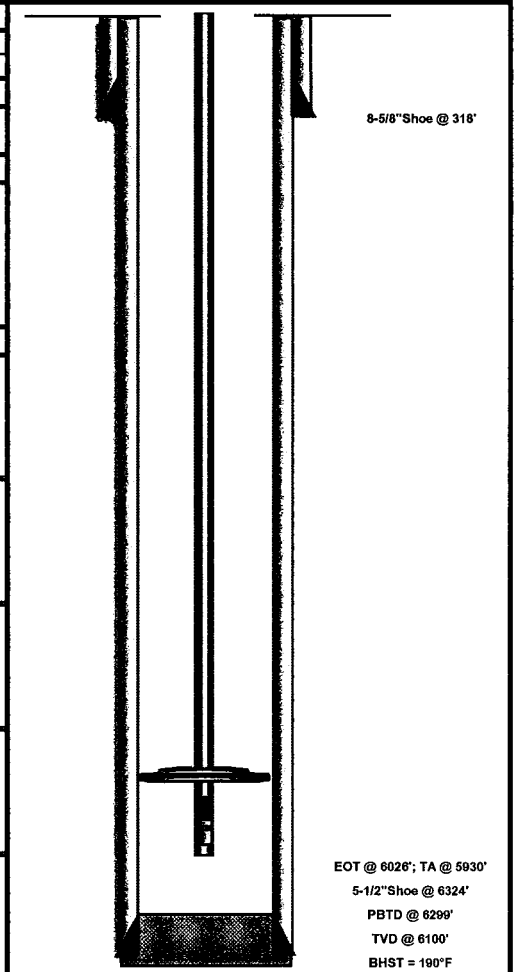
API#: 43-013-51151; Lease#: UTU-017985

Paul Lemboke

DLB 5/10/13

Spud Date: 2/6/13; PoP Date: 3/29/13

CASING DETAIL	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	318'	8.625	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
	Prod	10'	6,324'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TBG. DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	6,026'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	5,930'	
ROD DETAIL	Component			Top	Bottom	Size	Grade	Length	Count	Pump			
	Pony Rod				2'	7/8"	Tenaris D78	2'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,959'			
	Polish Rod			2'	32'	1 1/2"	4140	30'	1				
	Pony Rod			32'	34'	7/8"	Tenaris D78	2'	1				
	4per Guided Rod			34'	2,084'	7/8"	Tenaris D78	2,050'	82				
	4per Guided Rod			2,084'	5,209'	3/4"	Tenaris D78	3,125'	125				
	8per Guided Rod			5,209'	5,959'	7/8"	Tenaris D78	750'	30				
	Stage	Top	Bottom	SPF	EHD	Date	Frac Summary						
5	4,748'	4,750'	3	0.34	3/13/2013	Formation:	C-Sand	D3	D1				
	4,845'	4,846'	3	0.34	3/13/2013	20/40 White:	89,895 lbs	15% HCl:		0 gals			
	4,905'	4,907'	3	0.34	3/13/2013	Pad:	529 gals	Treating Fluid:		21,357 gals			
	4,910'	4,912'	3	0.34	3/13/2013	Flush:	5,116 gals	Load to Recover:		27,002 gals			
						ISIP=	0.933 psi/ft	Max STP:		2,912 psi			
4	5,018'	5,019'	3	0.34	3/13/2013	Formation:	B2						
	5,024'	5,025'	3	0.34	3/13/2013	20/40 White:	70,961 lbs	15% HCl:		500 gals			
	5,036'	5,038'	3	0.34	3/13/2013	Pad:	1,361 gals	Treating Fluid:		17,071 gals			
	5,052'	5,054'	3	0.34	3/13/2013	Flush:	5,017 gals	Load to Recover:		23,949 gals			
						ISIP=	0.836 psi/ft	Max STP:		2,668 psi			
3	5,191'	5,192'	3	0.34	3/13/2013	Formation:	LODC	A1	A3				
	5,212'	5,214'	3	0.34	3/13/2013	20/40 White:	50,036 lbs	15% HCl:		500 gals			
	5,324'	5,328'	3	0.34	3/13/2013	Pad:	722 gals	Treating Fluid:		12,697 gals			
						Flush:	5,200 gals	Load to Recover:		19,119 gals			
						ISIP=	0.871 psi/ft	Max STP:		3,713 psi			
2	5,638'	5,640'	3	0.34	3/13/2013	Formation:	CP1	CP-Half					
	5,678'	5,681'	3	0.34	3/13/2013	20/40 White:	25,722 lbs	15% HCl:		500 gals			
						Pad:	1,092 gals	Treating Fluid:		7,735 gals			
						Flush:	5,689 gals	Load to Recover:		15,027 gals			
						ISIP=	0.751 psi/ft	Max STP:		3,481 psi			
1	5,926'	5,928'	3	0.34	3/12/2013	Formation:	CP5	CP4					
	5,946'	5,948'	3	0.34	3/12/2013	20/40 White:	88,554 lbs	15% HCl:		1,890 gals			
	5,950'	5,952'	3	0.34	3/12/2013	Pad:	5,393 gals	Treating Fluid:		23,704 gals			
						Flush:	12,020 gals	Load to Recover:		41,617 gals			
						ISIP=	0.719 psi/ft	Max STP:		3,540 psi			
CEMENT	Surf	On 2/7/13 Pro Petro cemented 8 5/8" casing w/ 175 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 8 bbls to the pit.											
	Prod	On 2/21/13 Halliburton pumped 260 sks lead @ 11 ppg w/ 2.71 yield plus 465 sks tail @ 14.4 ppg w/ 1.21 yield. Returned 42 bbls to the pit. TOC @ 584'.											



EOT @ 6026'; TA @ 5930'  
 5-1/2" Shoe @ 6324'  
 PBTD @ 6299'  
 TVD @ 6100'  
 BHST = 190°F

## NEWFIELD



## GMBU L-15-9-16

Monument Butte - Duchesne County, Utah, USA

Surf Location: SW/NE - Sec 15, T9S, R16E; 1,885' FNL &amp; 2,005' FEL

5685' GL + 10' KB

API#: 43-013-51152; Lease#: UTU-017985

Sam Styles

PFM 4/8/2013

Spud Date: 9/24/2012; PoP Date: 2/5/2013

CASING DETAIL	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	328'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12,250
	Prod	10'	6,257'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7,875
TBG. DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,958'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,859'		
ROD DETAIL	Component			Top	Bottom	Size	Grade	Length	Count	Pump			
	Polish Rod			0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,886'. Pump # 2202 (25-175-RHAC-20-4-21-24) w/ 4" SM plunger & 224" max stroke.			
	Pony Rod			30'	32'	7/8"	Tenaris D78	2'	1				
	Pony Rod			32'	36'	7/8"	Tenaris D78	4'	1				
	4per Guided Rod			36'	1,186'	7/8"	Tenaris D78	1,850'	74				
	4per Guided Rod			1,186'	5,186'	3/4"	Tenaris D78	3,300'	132				
	8per Guided Rod			5,186'	5,886'	7/8"	Tenaris D78	700'	28				
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
5	4,165'	4,167'	3	0.34	1/22/2013	Formation:	GB-6						
	4,176'	4,178'	3	0.34	1/22/2013	20/40 White:	44,621 lbs	15% HCl:	0 gals				
	4,190'	4,192'	3	0.34	1/22/2013	Pad:	3,654 gals	Treating Fluid:	13,272 gals				
	0'	0'	3	0.00	-	Flush:	4,158 gals	Load to Recover:	21,084 gals				
	0'	0'	3	0.00	-	ISIP=	1,831 psi	Max STP:	2,811 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
4	4,818'	4,820'	3	0.34	1/22/2013	Formation:	B-0.5 C-Sand						
	4,826'	4,827'	3	0.34	1/22/2013	20/40 White:	42,620 lbs	15% HCl:	504 gals				
	4,844'	4,846'	3	0.34	1/22/2013	Pad:	1,218 gals	Treating Fluid:	10,836 gals				
	0'	0'	3	0.00	-	Flush:	4,830 gals	Load to Recover:	17,388 gals				
	0'	0'	3	0.00	-	ISIP=	2,203 psi	Max STP:	3,430 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
3	4,971'	4,974'	3	0.34	1/22/2013	Formation:	B-3						
	4,987'	4,988'	3	0.34	1/22/2013	20/40 White:	47,459 lbs	15% HCl:	504 gals				
	4,991'	4,993'	3	0.34	1/22/2013	Pad:	924 gals	Treating Fluid:	11,550 gals				
	0'	0'	3	0.00	-	Flush:	4,998 gals	Load to Recover:	17,976 gals				
	0'	0'	3	0.00	-	ISIP=	1,978 psi	Max STP:	3,176 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
2	5,582'	5,583'	3	0.34	1/22/2013	Formation:	CP-4 CP-1						
	5,587'	5,589'	3	0.34	1/22/2013	20/40 White:	70,160 lbs	15% HCl:	504 gals				
	5,763'	5,765'	3	0.34	1/22/2013	Pad:	462 gals	Treating Fluid:	16,464 gals				
	5,767'	5,769'	3	0.34	1/22/2013	Flush:	5,586 gals	Load to Recover:	23,016 gals				
	0'	0'	3	0.00	-	ISIP=	2,021 psi	Max STP:	3,115 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
1	5,872'	5,874'	3	0.34	1/18/2013	Formation:	CP-5						
	5,880'	5,882'	3	0.34	1/18/2013	20/40 White:	90,000 lbs	15% HCl:	756 gals				
	5,895'	5,896'	3	0.34	1/18/2013	Pad:	3,234 gals	Treating Fluid:	16,464 gals				
	5,904'	5,906'	3	0.34	1/18/2013	Flush:	5,880 gals	Load to Recover:	26,334 gals				
	0'	0'	3	0.00	-	ISIP=	1,684 psi	Max STP:	2,851 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
CEMENT	Surf	On 9/18/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.											
	Prod	On 10/12/12 Baker pumped 138 bbls lead @ 11 ppg w/ 3.53 yield plus 104 bbls tail @ 14.4 ppg w/ 1.24 yield. Returned 38 bbls to the pit. TOC @ Surface.											

8-5/8" Shoe @ 328'

EOT @ 5958'; TA @ 5,859"  
 5-1/2" Shoe @ 6257'  
 PBTD @ 8240'  
 TVD @ 6101'  
 BHST = 170°F

## Castle Peak Federal #33-15

Put on Production: 6/2/1982

## Wellbore Diagram

Elev GL @ 5745'  
Elev KB @ 5759' (14' KB)

## SURFACE CASING

8 5/8", 24#, K-55  
6 jts @ 243.35'  
Landed @ 253' KB  
Hole Size @ 12 1/4"  
Cemented w/200 sx Class G w/ 2%  
CaCl & 1/4#/sx Flocele. Cemented  
to surface.

## PRODUCTION CASING

5 1/2", 15.5#, K-55  
143 jts @ 5981'  
Landed @ 5979' KB  
Hole Size @ 7 7/8"  
Cemented w/645 sx Class G & 750  
sx 10.0 RFC w/ additives.  
Cement Top @ 224' from CBL

## TUBING

SIZE/GRADE/WT.: 2 3/8", 4.7 lbs  
NO. OF JOINTS: 187 jts. (5712.4')  
TUBING ANCHOR: 5712.4'  
NO. OF JOINTS: 1 jts. (32.2')  
SEATING NIPPLE: 2 3/8" (1.1')  
PERF. SUB: 2-3/8"x4.00'  
MUD ANCHOR: 2 3/8" x 30'  
TOTAL STRING LENGTH: 5810'  
SN LANDED AT: 5747.4'  
NO. OF JOINTS: 2 jts (60.9')

## SUCKER RODS

1 - 1-1/4" x 16' Polish Rod  
SUCKER RODS: 98- 3/4" guided rods  
(4 per), 106- 3/4" sucker rods

PUMP SIZE: 2' x 1 1/4" x 16' RHAC

STROKE LENGTH:  
PUMP SPEED, SPM:  
PUMPING UNIT SIZE: Lufkin MarkII M114D 173-74  
Unit serviced 10-6-92  
S/N E97711A1-456676  
Ajax EA-30 engine  
S/N 79361

TOC @ 224' ---  
253' KB ---->

## ACID JOBS

5217'-5230' KB 1000 gal 7.5% HCl  
5471'-5543' KB 2000 gal 7.5% HCl  
5656'-5776' KB 1000 gal 7.5% HCl

## FRAC JOBS

5217'-5230' KB 5-18-82: w/Western. 20000 gal Apollo 40  
w/28500# 20-40 sand & 12000# 10-20 sand.  
ATR 10 BPM @ 2500 psi, max 2600 psi. ISIP  
@ 2450 psi, 15 - 2200 psi, 20 - 2200 psi.  
5471'-5543' KB 5-16-82: w/Western. 50000 gal Apollo 40  
w/75000# 20-40 sand & 20000# 10-20 sand.  
ATR 20 BPM @ 1700 psi, max 1800 psi. ISIP  
@ 1700 psi, 15 - 1600 psi, 20 - 1550 psi.  
5656'-5776' KB 5-14-82: w/Western. 3850 gal Apollo 40  
w/3200# 20-40 sand. 8 Ball sealers pumped,  
sand screened out before balls hit perfs.  
ATR 10 BPM @ 1600 psi, max 3800 psi.  
ISIP 800 psi, 15 - 0.

11/19/08 Tubing Leak. Updated rod & tubing details.  
1/19/2010 Tubing Leak. Updated rod and tubing detail.

5217'-5230'

5471'-5505'

5522'-5543'

5656'-5664'

5760'-5776'

SN LANDED @5747'  
PBTD @5934' KB  
TD @5980' KB



CASTLE PEAK FEDERAL #33-15  
Jonah Unit / Monument Butte Field  
Lease No. U-017985 API# 43-013-30632  
NWSE Sec. 15, T9S, R16E  
Duchesne Co., Utah

# NEWFIELD



## GMBU M-15-9-16

Monument Butte - Duchesne County, Utah, USA

Surf Location: NE/SW - Sec 15, T9S, R16E; 1,907' FNL & 2,015' FEL

5904' GL + 10' KB

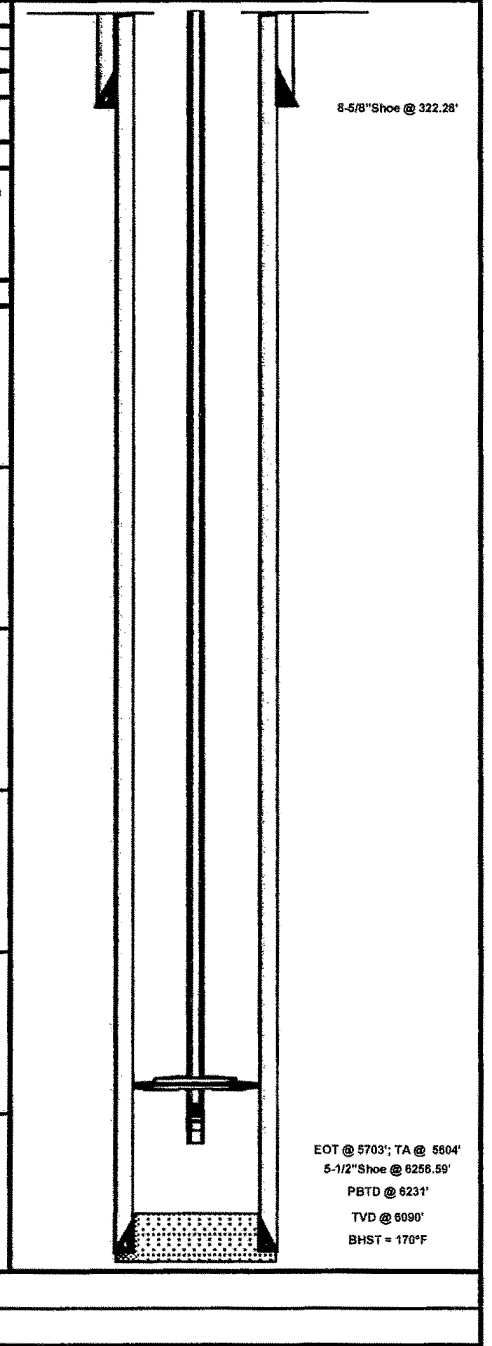
Paul Lembcke

PFM 4/9/2013

API#: 43-013-51153; Lease #: UTU-017985

Spud Date: 9/25/2012; PoP Date: 2/5/2013

CASING DETAIL	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	322'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2,6749	STC	12.250
	Prod	10'	6,257'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TGBL DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,703'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,604'		
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHBC @ 5,632' Pump #2218 (2.5-1.75-RHAC-20-4-21-24) w/ 4' SM plunger & 224" max stroke				
	Pony Rod		30'	32'	7/8"	Tenaris D78	2'	1					
	4per Guided Rod		32'	1,982'	7/8"	Tenaris D78	1,950'	78					
	4per Guided Rod		1,982'	4,932'	3/4"	Tenaris D78	2,950'	118					
	8per Guided Rod		4,932'	5,632'	7/8"	Tenaris D78	700'	28					
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
6	3,999'	4,000'	3	0.34	1/22/2013	Formation:	GB6	GB4	GB2				
	4,007'	4,008'	3	0.34	1/22/2013	20/40 White:	56,732 lbs	15% HCl:	0 gals				
	4,039'	4,040'	3	0.34	1/22/2013	Pad:	1,428 gals	Treating Fluid:	17,976 gals				
	4,045'	4,046'	3	0.34	1/22/2013	Flush:	3,990 gals	Load to Recover:	23,394 gals				
	4,107'	4,108'	3	0.34	1/22/2013	ISIP=	1,988 psi	Max STP:	3,744 psi				
	4,112'	4,114'	3	0.34	1/22/2013								
	0'	0'	3	0.00	-								
5	4,387'	4,390'	3	0.34	1/21/2013	Formation:	PB11	PB10					
	4,420'	4,424'	3	0.34	1/21/2013	20/40 White:	45,103 lbs	15% HCl:	504 gals				
	0'	0'	3	0.00	-	Pad:	7,980 gals	Treating Fluid:	14,994 gals				
	0'	0'	3	0.00	-	Flush:	4,368 gals	Load to Recover:	27,846 gals				
	0'	0'	3	0.00	-	ISIP=	2,131 psi	Max STP:	3,240 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
4	4,779'	4,780'	3	0.34	1/21/2013	Formation:	C-Sand	D3					
	4,824'	4,825'	3	0.34	1/21/2013	20/40 White:	89,511 lbs	15% HCl:	504 gals				
	4,832'	4,834'	3	0.34	1/21/2013	Pad:	3,024 gals	Treating Fluid:	20,790 gals				
	0'	0'	3	0.00	-	Flush:	4,788 gals	Load to Recover:	29,106 gals				
	0'	0'	3	0.00	-	ISIP=	2,228 psi	Max STP:	3,515 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
3	4,960'	4,962'	3	0.34	1/21/2013	Formation:	B2						
	4,968'	4,971'	3	0.34	1/21/2013	20/40 White:	69,103 lbs	15% HCl:	504 gals				
	0'	0'	3	0.00	-	Pad:	1,344 gals	Treating Fluid:	19,194 gals				
	0'	0'	3	0.00	-	Flush:	4,958 gals	Load to Recover:	25,998 gals				
	0'	0'	3	0.00	-	ISIP=	1,924 psi	Max STP:	2,478 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
2	5,108'	5,110'	3	0.34	1/21/2013	Formation:	LODC	A3					
	5,245'	5,248'	3	0.34	1/21/2013	20/40 White:	80,514 lbs	15% HCl:	504 gals				
	5,260'	5,262'	3	0.34	1/21/2013	Pad:	5,796 gals	Treating Fluid:	18,480 gals				
	0'	0'	3	0.00	-	Flush:	5,208 gals	Load to Recover:	29,988 gals				
	0'	0'	3	0.00	-	ISIP=	2,375 psi	Max STP:	3,355 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
1	5,575'	5,576'	3	0.34	1/18/2013	Formation:	CP2	CP1					
	5,584'	5,586'	3	0.34	1/18/2013	20/40 White:	75,414 lbs	15% HCl:	756 gals				
	5,616'	5,620'	3	0.34	1/18/2013	Pad:	2,772 gals	Treating Fluid:	19,866 gals				
	0'	0'	3	0.00	-	Flush:	5,586 gals	Load to Recover:	28,980 gals				
	0'	0'	3	0.00	-	ISIP=	1,758 psi	Max STP:	3,770 psi				
	0'	0'	3	0.00	-								
	0'	0'	3	0.00	-								
CEMENT	Surf	On 9/25/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit											
	Prod	On 10/18/12 Baker pumped 216 sks lead @ 11 ppg w/ 3.53 yield plus 480 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 30 bbls to the pit. TOC @ Surface											



# Jonah Fed N-14-9-16

Spud Date: 11/10/2008  
Put on Production: 11/29/2008

GL: 5682' KB: 5694'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (313.61')  
DEPTH LANDED: 325.46' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx Class 'g' g cmt

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 157 jts (6281.96')  
DEPTH LANDED: 6137.62'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sx primlite and 425 sx class 'g'  
CEMENT TOP AT: 136'

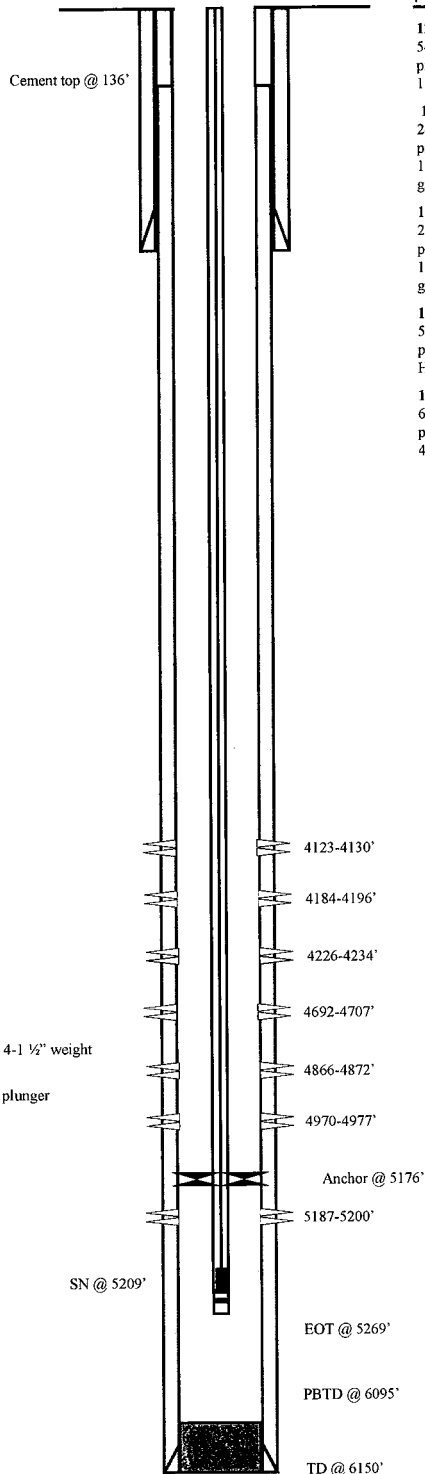
## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 168 jts (5161.43')  
TUBING ANCHOR: 5176.13' KB  
NO. OF JOINTS: 1 jt (30.36')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5208.59' KB  
NO. OF JOINTS: 2 jts (61.36')  
TOTAL STRING LENGTH: EOT @ 5269.40'

## SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
SUCKER RODS: 2', 8" x 7/8" ponies, 203-7/8" scraped rods, 4-1 1/2" weight bars  
PUMP SIZE: CDI 2 1/2" x 1 3/4" x 16" x 18" RHAC pump w/sm plunger  
STROKE LENGTH: 122"  
PUMP SPEED, SPM: 4

## Wellbore Diagram



## FRAC JOB

**12/12/08 5187-5200' Frac A3 sds as follows:**  
54,910# 20/40 sand in 381 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2380 @ ave rate of 23.1 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1379.

**12/17/08 4970-4977' RU BJ & frac B1 sds as follows:**  
24,046# 20/40 sand in 667 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2400 w/ ave rate of 22 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2107. Actual flush: 4527 gals.

**12/17/08 4866-4872' RU BJ & frac stage #3 sds as follows:**  
24,952# 20/40 sand in 359 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2506 w/ ave rate of 28 bpm w/ 6 ppg of sand. Spot 6 bbls of 15% HCL acid in flush for next stage. ISIP was 1670. Actual flush: 4670 gals.

**12/18/08 4692-4707' Frac D1 sds as follows:**  
55,615# 20/40 sand in 492 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1705 psi @ ave rate of 22.5 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1924 psi. Actual flush: 4192 gals.

**12/18/08 4123-4234' Frac GB sds as follows:**  
65,538# 20/40 sand in 570 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1731 psi @ ave rate of 22.2 BPM. ISIP 2036 psi. Actual flush: 4036 gals.

## PERFORATION RECORD

12/9/08	4123-4130'	4 JSPF	28 holes
12/9/08	4184-4196'	4 JSPF	48 holes
12/9/08	4226-4234'	4 JSPF	32 holes
12/9/08	4692-4707'	4 JSPF	60 holes
12/10/08	4866-4872'	4 JSPF	24 holes
12/10/08	4970-4977'	4 JSPF	56 holes
12/10/08	5187-5200'	4 JSPF	52 holes

**NEWFIELD**

**Jonah N-14-9-16**

1823' FSL & 548' FWL

NW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34011 ; Lease # UTU-096547

# Castle Peak #24-15-9-16

Spud Date: 6/19/82  
Put on Production: 8/30/12  
GL: 5770' KB: 5783'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: K-55  
WEIGHT: 24#  
LENGTH: 7 jts. (261')  
DEPTH LANDED: 274'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 200 sxs Type II cmt. Returns to surface.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 138 jts. (5870.46')  
DEPTH LANDED: 5867'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sxs Dowell HiLift & 475 sxs 10-0 PFC.  
CEMENT TOP: 920' per CBL 7/17/82

### TUBING (KS 8/25/10)

SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.7#  
NO. OF JOINTS: 181 jts (5413.8')  
TUBING ANCHOR: 5426.8'  
NO. OF JOINTS: 1 jt (29.5')  
SEATING NIPPLE: 2-3/8" (1.10')  
SN LANDED AT: 5459.1'  
NO. OF JOINTS: 1 jt (30.1')  
NOTCHED COLLAR: 2-3/8" (0.5')  
TOTAL STRING LENGTH: EOT @ 5491'

### SUCKER RODS (KS 8/28/10)

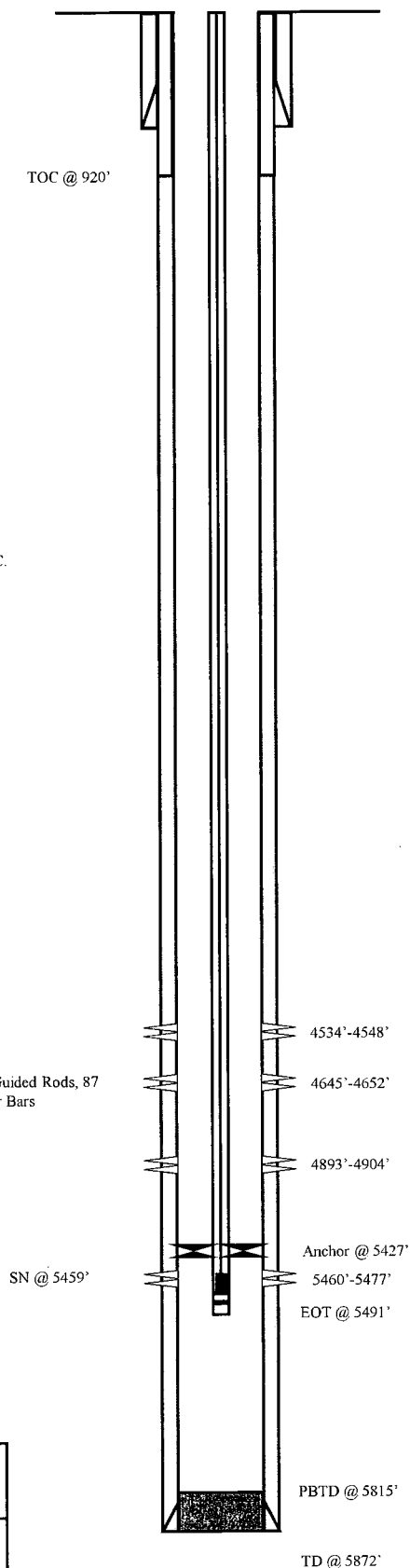
POLISHED ROD: 1-1/4" x 16' Polished Rods  
SUCKER RODS: 2 x 2', 4', 6' x 3/4" Pony Rods, 85 x 3/4" 4per Guided Rods, 87 x 3/4" Sucker Rods, 41 x 3/4" 4per Guided Rods, 4 x 1-1/2" Sinker Bars  
PUMP SIZE: 2" x 1-1/4" x 12" x 16' RHAC  
STROKE LENGTH: 62"  
PUMP SPEED, SPM: 3.7  
PUMPING UNIT: LUFKIN C-160D-173-74

### FRAC JOB

7/19/82	5460'-5477'	<b>Frac zone as follows:</b> 30,500# 20/40 + 6,000# 10-20 sand in 643 bbls Ver 140 fluid. Treated @ avg press of 1650 psi w/avg rate of 15 BPM. ISIP 1620 psi.
8/09/82	4893'-4904'	<b>Frac zone as follows:</b> 19,500# 20/40 + 6,000# 10-20 sand in 560 bbls Ver 140 fluid. Treated @ avg press of 2000 psi w/avg rate of 10 BPM. ISIP 2120 psi.
8/21/82	4534'-4652'	<b>Frac zone as follows:</b> 44,500# 20/40 + 12,000# 10-20 sand in 905 bbls Ver 140 fluid. Treated @ avg press of 2600 psi w/avg rate of 15 BPM. ISIP 1920 psi.
11/6/01		Tbg leak. Update rod and tubing details.
11/20/01		Pump change. Update rod details.
5-31-05		Pump change. Update rod details.
8/18/09		Tubing Leak. Updated rod & tubing detail.
8/26/2010		Parted rods. Updated rod and tubing detail.

### PERFORATION RECORD

4534'-4548'	2 JSPF	28 holes
4645'-4652'	2 JSPF	14 holes
4893'-4904'	2 JSPF	22 holes
5460'-5477'	2 JSPF	34 holes



**NEWFIELD**

**Castle Peak #24-15-9-16**  
659' FSL & 1980' FWL  
SESW Section 15-T9S-R16E  
Duchesne Co, Utah  
API #43-013-30631; Lease #U-74805



1 of 4

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **JONAH 16-15-9-16**Sample Point: **Separator**Sample Date: **2/5/2013**Sample ID: **WA-233523**Sales Rep: **Michael McBride**Lab Tech: **Gary Peterson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	2/14/2013	Sodium (Na):	5356.62	Chloride (Cl):	6000.00
System Temperature 1 (°F):	120.00	Potassium (K):	20.00	Sulfate (SO <sub>4</sub> ):	6.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	5.30	Bicarbonate (HCO <sub>3</sub> ):	3977.20
System Temperature 2 (°F):	210.00	Calcium (Ca):	8.20	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	1.008	Barium (Ba):	7.30	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	8.20	Iron (Fe):	2.20	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	15382.92	Zinc (Zn):	0.01	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.01	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	5.12	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.08	Silica (SiO <sub>2</sub> ):	
H <sub>2</sub> S in Water (mg/L):	10.00				

## Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	1.41	6.88	0.00	0.00	3.26	1.21	3.08	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.40	0.00
200.00	60.00	1.35	6.83	0.00	0.00	3.23	1.21	3.03	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.48	0.00
190.00	60.00	1.29	6.79	0.00	0.00	3.21	1.21	2.97	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.56	0.00
180.00	60.00	1.24	6.73	0.00	0.00	3.20	1.21	2.91	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.64	0.00
170.00	60.00	1.19	6.67	0.00	0.00	3.19	1.21	2.85	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00
160.00	60.00	1.13	6.61	0.00	0.00	3.19	1.21	2.79	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.84	0.00
150.00	60.00	1.09	6.54	0.00	0.00	3.19	1.21	2.73	1.60	0.00	0.00	0.00	0.00	0.00	0.00	7.95	0.00
140.00	60.00	1.04	6.47	0.00	0.00	3.21	1.21	2.66	1.59	0.00	0.00	0.00	0.00	0.00	0.00	8.07	0.00
130.00	60.00	1.00	6.40	0.00	0.00	3.23	1.21	2.60	1.59	0.00	0.00	0.00	0.00	0.00	0.00	8.19	0.00
120.00	60.00	0.96	6.32	0.00	0.00	3.25	1.21	2.54	1.59	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00

		Hemihydrate CaSO <sub>4</sub> 0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	8.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	8.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	9.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00

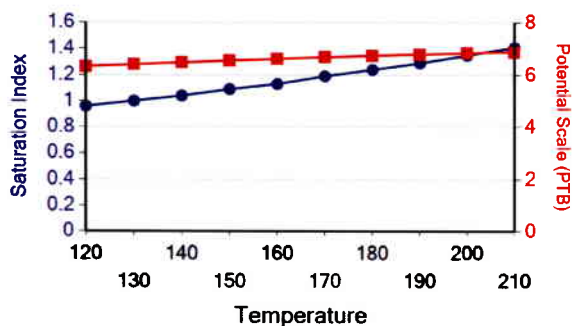
2 of 4

## Water Analysis Report

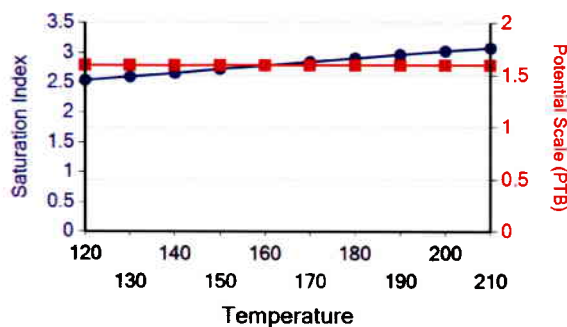
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Lead Sulfide

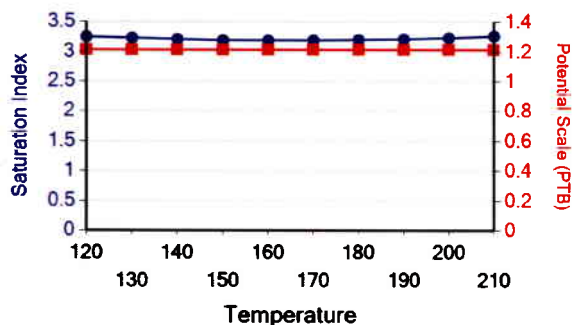
Calcium Carbonate



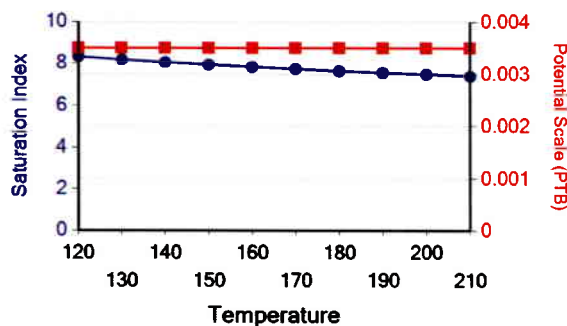
Iron Carbonate



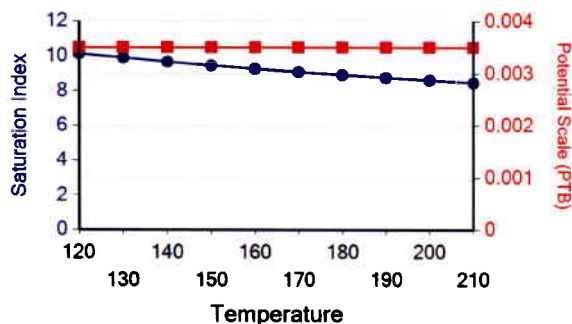
Iron Sulfide



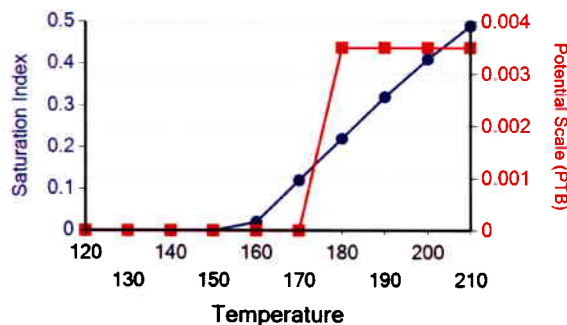
Zinc Sulfide



Lead Sulfide



Zinc Carbonate



## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Sales Rep: **Michael McBride**Well Name: **SWDIF**Lab Tech: **Gary Peterson**Sample Point: **After Filter**Sample Date: **12/4/2012**Sample ID: **WA-229142**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/5/2012	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	734.93	Chloride (Cl):	1000.00
System Pressure 1 (psig):	60.0000	Potassium (K):	11.00	Sulfate (SO <sub>4</sub> ):	120.00
System Temperature 2 (°F):	210.00	Magnesium (Mg):	26.00	Bicarbonate (HCO <sub>3</sub> ):	366.00
System Pressure 2 (psig):	60.0000	Calcium (Ca):	46.20	Carbonate (CO <sub>3</sub> ):	
Calculated Density (g/ml):	0.999	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
pH:	6.80	Barium (Ba):	0.17	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	2304.49	Iron (Fe):	0.13	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Zinc (Zn):	0.02	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	15.00	Lead (Pb):	0.00	Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	2.50	Manganese (Mn):	0.04	Silica (SiO <sub>2</sub> ):	

Notes:

9:30

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.01
200.00	60.00	0.19	7.48	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	0.01
190.00	60.00	0.11	4.25	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	0.01
180.00	60.00	0.02	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.01
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.01
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.01
150.00	60.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.01
140.00	60.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.01
130.00	60.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.01
120.00	60.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.01



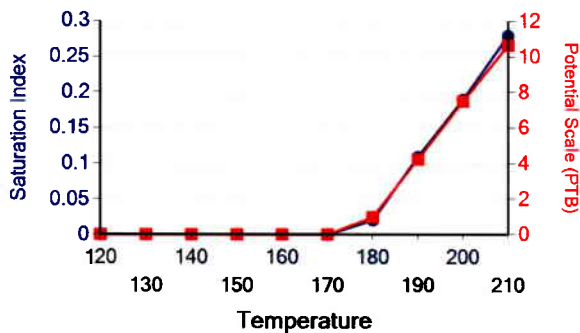
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

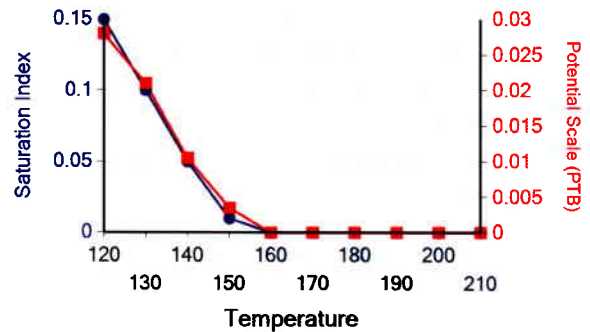
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Barium Sulfate Zinc Sulfide

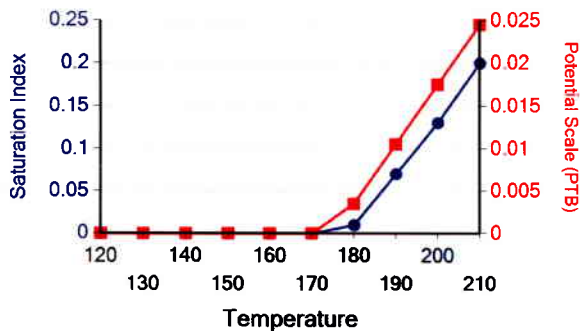
Calcium Carbonate



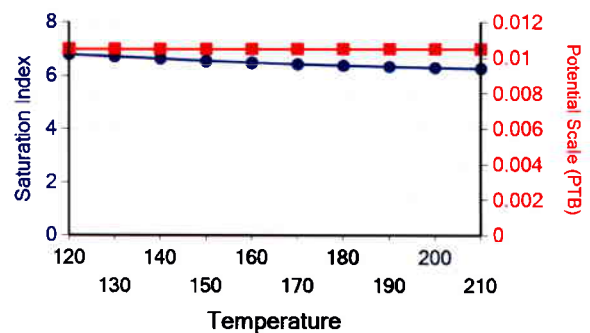
Barium Sulfate



Iron Sulfide



Zinc Sulfide



## Attachment "G"

### Federal #16-15-9-16 Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient	Pmax
Top	Bottom			(psi/ft)	
5400	5410	5405	1850	0.78	1815
4985	4994	4990	1870	0.81	1838
4808	4814	4811	2600	0.97	2569
4672	4680	4676	2240	0.91	2210
4032	4044	4038	1835	0.89	1809 ←
3678	3694	3686	1840	0.93	1816
				<b>Minimum</b>	<u>1809</u>

#### Calculation of Maximum Surface Injection Pressure

$$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$$
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: 19-Jan-06Day: 01Operation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5400- 5410'	4/40

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 18-Jan-06SITP:  SICP: 0

Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5772' & cement top @ 150'. Perforate stage #1, CP1 sds @ 5400- 10' w/ 4" Port guns (19 gram, .46"HE. 120 ) w/ 4 spf for total of 40 shots. 137 bbls EWTR. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 137 Starting oil rec to date:   
 Fluid lost/recovered today: 0 Oil lost/recovered today:   
 Ending fluid to be recovered: 137 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used:  Job Type: Company: Procedure or Equipment detail: 


## COSTS

Weatherford BOP	
NPC NU crew	
NDSI trucking	
Perforators LLC	
Drilling cost	
D & M hot oil	
Location preparation	
NPC wellhead	
Benco - anchors	
Admin. Overhead	
NPC Supervisor	

Max TP:  Max Rate:  Total fluid pmpd: Avg TP:  Avg Rate:  Total Prop pmpd: ISIP:  5 min:  10 min:  FG: Completion Supervisor: Orson BarneyDAILY COST:  \$0TOTAL WELL COST:



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: 26-Jan-06Day: 2aOperation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301'Prod Csg: 5-1/2" @ 5818'Csg PBTD: 5772'WLTbg: Size: Wt:Grd: Pkr/EOT @:BP/Sand PBTD: 

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5400- 5410'	4/40

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 25-Jan-06SITP: SICP: 56 psi

## Day 2a.

RU BJ's "Ram head". RU BJ Services. 56 psi on well. Frac CP1 sds w/ 14,789#'s of 20/40 sand in 255 bbls of Lightning 17 fluid. Broke @ 2791 psi. Treated w/ ave pressure of 1785 psi @ ave rate of 25.1 BPM. ISIP 1850 psi. Leave pressure on well. 392 BWTR. **See Day 2b.**

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 137Starting oil rec to date: Fluid lost/recovered today: 255Oil lost/recovered today: Ending fluid to be recovered: 392Cum oil recovered: IFL: FFL: FTP:Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: CP1 sands420 gals to breakdown & get crosslink.1500 gals of pad1136 gals W/ 1-4 ppg of 20/40 sand2278 gals W/ 4-6.5 ppg of 20/40 sandFlush W/ 504 gals of 15% HCL acidFlush W/ 4872 gals of slick water**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***Max TP: 1850 Max Rate: 25.3 BPM Total fluid pmpd: 255 bblsAvg TP: 1785 Avg Rate: 25.1 BPM Total Prop pmpd: 14,789#'sISIP: 1850 5 min: 10 min: FG: .78Completion Supervisor: Orson Barney

## COSTS

BJ Services-CP1sds NPC/Betts frac wtr NPC fuel gas Weatherford tools/serv NPC Supervisor NPC trucking DAILY COST: \$0TOTAL WELL COST: \$0



**WELL NAME:** Jonah 16-15-9-16 **Report Date:** 26-Jan-06 **Day:** 2b  
**Operation:** Completion **Rig:** Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBDT: 5772'WL  
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBDT: 5100'

## PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<u>CP1 sds</u>	<u>5400- 5410'</u>	<u>4/40</u>
<b>A3 sds</b>	<b>4985- 4994'</b>	<b>4/36</b>			

## CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 25-Jan-06 **SITP:** \_\_\_\_\_ **SICP:** 1570 psi

## Day 2b.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 9' (3 1/8") perf gun Set plug @ 5100'. Perforated A3 sds @ 4985- 94'. All 4 SPF for a total of 36 holes. RU BJ Services. 1570 psi or well. Frac A3 sds w/ 18,508#s of 20/40 sand in 284 bbls of Lightning 17 fluid. Broke @ 4230 psi. Treated w/ ave pressure of 1845 psi @ ave rate of 25.1 BPM. ISIP 1870 psi. Leave pressure on well. 676 BWTR. **See Day 2c.**

### FLUID RECOVERY (BBLS)

<b>Starting fluid load to be recovered:</b>	<b>392</b>	<b>Starting oil rec to date:</b>	
<b>Fluid lost/recovered today:</b>	<b>284</b>	<b>Oil lost/recovered today:</b>	
<b>Ending fluid to be recovered:</b>	<b>676</b>	<b>Cum oil recovered:</b>	
<b>IFL:</b>	<b>FFL:</b>	<b>FTP:</b>	<b>Choke:</b>
			<b>Final Fluid Rate:</b>
			<b>Final oil cut:</b>

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
Company: BJ Services

## COSTS

**Procedure or Equipment detail:** A3 sands

504 gals to breakdown & get crosslink.

2000 gals of pad

1511 gals W/ 1-4 ppg of 20/40 sand

2957 gals W/ 4-6.5 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4452 gals of slick water

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

**Max TP: 1925    Max Rate: 25.4 BPM    Total fluid pmpd: 284 bbls**

**Avg TP: 1845 Avg Rate: 25.1 BPM Total Prop pmpd: 18,508#'s**

**ISIP: 1870      5 min:      10 min:      FG: .81**

**Completion Supervisor:** Orson Barney

BJ Services-A3sds

NPC/Betts frac wtr

NPC fuel gas

Weatherford tools/serv

Lone Wolf WL

## NPC Supervisor

**DAILY COST:** \$0

**TOTAL WELL COST:** \$0



**WELL NAME:** Jonah 16-15-9-16 **Report Date:** 26-Jan-06 **Day:** 2c  
**Operation:** Completion **Rig:** Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 4910'  
BP: 5100'

## PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<b>CP1 sds</b>	<b>5400- 5410'</b>	<b>4/40</b>
<b>B2 sds</b>	<b>4808- 4814'</b>	<b>4/24</b>			
<b>A3 sds</b>	<b>4985- 4994'</b>	<b>4/36</b>			

## CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 25-Jan-06 **SITP:** **SICP:** 1412 psi

**Day 2c.**

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 6' (3 1/8") perf gun. Set plug @ 4910'. Perforated B2 sds @ 4808- 14'. All 4 SPF for a total of 24 holes. RU BJ Services. 1412 psi on well. Pressured up to 4300 psi, Would not breakdown. RU Lone Wolf WL & dump bail acid. Frac B2 sds w/ 23,613#s of 20/40 sand in 319 bbls of Lightning 17 fluid. Broke @ 2825 psi. Treated w/ ave pressure of 2375 psi @ ave rate of 25.1 BPM. ISIP 2600 psi. Leave pressure on well. 995 BWTR. **See Day 2d.**

**FLUID RECOVERY (BBLS)**

Starting fluid load to be recovered: <u>676</u>			Starting oil rec to date: _____		
Fluid <u>lost</u> /recovered today: <u>319</u>			Oil <u>lost</u> /recovered today: _____		
Ending fluid to be recovered: <u>995</u>			Cum oil recovered: _____		
IFL:	FFL:	FTP:	Choke:	Final Fluid Rate:	Final oil cut:

### STIMULATION DETAIL

**Base Fluid used:** Lightning 17      **Job Type:** Sand frac

**Company:** **BJ Services**

**Procedure or Equipment detail:** B2 sands

gals to breakdown & get crosslink.

2500 gals of pad

1915 gals W/ 1-4 ppg of 20/40 sand

3565 gals W/ 4-6.5 ppg of 20/40 sand

Flush W/ 504 gals of 15% HCL acid

Flush W/ 4284 gals of slick water

## **COSTS**

BJ Services-B2sds

NPC/Betts frac wtr

NPC fuel gas

Weatherford tools/serv

Lone Wolf WL

## NPC Supervisor

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

**Max TP: 2480 Max Rate: 25.3 BPM Total fluid pmpd: 319 bbls**

**Avg TP: 2375 Avg Rate: 25.1 BPM Total Prop pmpd: 23,613#'s**

**ISIP: 2600      5 min:      10 min:      FG: .97**

**Completion Supervisor:** Orson Barney

**DAILY COST:** \$0

**TOTAL WELL COST:** \$0



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: 26-Jan-06Day: 2dOperation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4740'  
 BP: 4910', 5100'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5400- 5410'	4/40
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 25-Jan-06SITP: SICP: 1325 psi

## Day 2d.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 8' (3 1/8") perf gun Set plug @ 4740'. Perforated C sds @ 4672- 80'. All 4 SPF for a total of 32 holes. RU BJ Services. 1325 psi on well Pressured up to 4300 psi, Would not breakdown. RU Lone Wolf WL & dump bail acid. RU BJ Services. Pressured up to 4300 psi, Would not breakdown. RU Lone Wolf WL. Dump bail acid (2 run). RU BJ Services. Frac C sds w. 61,018#'s of 20/40 sand in 480 bbls of Lightning 17 fluid. Broke @ 4250 psi. Treated w/ ave pressure of 2005 psi @ ave rate of 25 BPM. ISIP 2240 psi. Leave pressure on well. 1475 BWTR. See Day 2e.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 995 Starting oil rec to date:   
 Fluid lost/recovered today: 480 Oil lost/recovered today:   
 Ending fluid to be recovered: 1475 Cum oil recovered:   
 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: C sands336 gals to breakdown & get crosslink.4600 gals of pad3000 gals W/ 1-5 ppg of 20/40 sand6000 gals W/ 5-8 ppg of 20/40 sand1604 gals W/ 8 ppg of 20/40 sandFlush W/ 504 gals of 15% HCL acidFlush W/ 4116 gals of slick water\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*Max TP: 2240 Max Rate: 25.3 BPM Total fluid pmpd: 480 bblsAvg TP: 2005 Avg Rate: 25 BPM Total Prop pmpd: 61,018#'sISIP: 2240 5 min: 10 min: FG: .96Completion Supervisor: Orson Barney

## COSTS

BJ Services-CsdsNPC/Betts frac wtrNPC fuel gasWeatherford tools/servLone Wolf WLNPC SupervisorDAILY COST: \$0TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16 Report Date: 26-Jan-06 Day: 2e  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4270'  
 BP: 4740', 4910', 5100'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5400- 5410'	4/40
GB6 sds	4032- 4044'	4/48			
PB8 sds	4162- 4168'	4/24			
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 25-Jan-06 SITP: SICP: 1317 psi

## Day 2e.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug, 6' & 12' (3 1/8") per gun. Set plug @ 4270'. Perforated PB8 sds @ 4162- 68', GB6 sds @ 4032- 44'. All 4 SPF for a total of 72 holes. RL BJ Services. 1317 psi on well. Frac PB8 & GB6 sds w/ 29,328#'s of 20/40 sand in 330 bbls of Lightning 17 fluid Broke @ 1645 psi. Treated w/ ave pressure of 1813 psi @ ave rate of 25.1 BPM. ISIP 1835 psi. Leave pressure or well. 1805 BWTR. See Day 2f.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1475 Starting oil rec to date:   
 Fluid lost/recovered today: 330 Oil lost/recovered today:   
 Ending fluid to be recovered: 1805 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: PB8 & GB6 sands

3000 gals of pad  
2319 gals W/ 1-4 ppg of 20/40 sand  
4551 gals W/ 4-6.5 ppg of 20/40 sand  
Flush W/ 504 gals of 15% HCL acid  
Flush W/ 3486 gals of slick water

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

Max TP: 1980 Max Rate: 25.3 BPM Total fluid pmpd: 330 bbls  
 Avg TP: 1813 Avg Rate: 25.1 BPM Total Prop pmpd: 29,328#'s  
 ISIP: 1835 5 min:  10 min:  FG: .88  
 Completion Supervisor: Orson Barney

## COSTS

BJ Services-PB8/GB6  
 NPC/Betts frac wtr  
 NPC fuel gas  
 Weatherford tools/serv  
 Lone Wolf WL  
 NPC Supervisor

DAILY COST: \$0

TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: 26-Jan-06Day: 2fOperation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 3800'  
 BP: 4270', 4740', 4910', 5100'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GG sds	3678- 3694'	4/64	CP1 sds	5400- 5410'	4/40
GB6 sds	4032- 4044'	4/48			
PB8 sds	4162- 4168'	4/24			
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 25-Jan-06SITP: SICP: 1485 psi

## Day 2f.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 16' (3 1/8") per gun. Set plug @ 3800'. Perforated GG sds @ 3678- 94'. All 4 SPF for a total of 64 holes. RU BJ Services. 1485 ps on well. Frac GG sds w/ 48534#'s of 20/40 sand in 390 bbls of Lightning 17 fluid. Broke @ 3640 psi. Pumped 59 bbls of pad, Could not get crosslink due to chemical problems. Shut down & restart pad. Treated w/ ave pressure of 1700 psi @ ave rate of 25.1 BPM. ISIP 1840 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 3 hrs & died. Rec. 176 BTF (8% of total frac load). SIWFN w/ 2078 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1805 Starting oil rec to date:   
 Fluid lost/recovered today: 273 Oil lost/recovered today:   
 Ending fluid to be recovered: 2078 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: GG sands2470 gals to breakdown & get crosslink.3800 gals of pad2625 gals W/ 1-5 ppg of 20/40 sand5250 gals W/ 5-8 ppg of 20/40 sand1143 gals W/ 8 ppg of 20/40 sandFlush W/ 3570 gals of slick water

## COSTS

BJ Services-GG  
 NPC/Betts frac wtr  
 NPC fuel gas  
 Weatherford tools/serv  
 Lone Wolf WL  
 NPC Supervisor  
 NPC flowback hand  
 Unichem chemicals  
 NPC/Betts wtr transfer

Max TP: 1875 Max Rate: 25.3 BPM Total fluid pmpd: 449 bblsAvg TP: 1700 Avg Rate: 25.1 BPM Total Prop pmpd: 48,534#'sISIP: 1840 5 min:  10 min:  FG: .93Completion Supervisor: Orson BarneyDAILY COST: \$0TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: Jan. 28, 2006Day: 03Operation: CompletionRig: NC #1

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'WL  
 Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 4751' BP/Sand PBTD: BP: 4910', 5100'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GG sds	3678- 3694'	4/64	CP1 sds	5400- 5410'	4/40
GB6 sds	4032- 4044'	4/48			
PB8 sds	4162- 4168'	4/24			
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan. 27, 2006SITP:            SICP: 25

MIRU NC #1. Thaw wellhead & BOP W/ HO truck. Bleed pressure off well. Rec est 5 BTF. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, drift, PU & TIH W/ usec Weatherford 4 3/4" "chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 3603'. Tbg displaced est 9 BTF or TIH. RU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): sd @ 3603', plug @ 3800' in 21 minutes; no sd, plug @ 4270' in 30 minutes; sd @ 4527', plug @ 4740' in 26 minutes. Circ hole clean W/ est 40 BW lost. RD swivel. SIFN W/ EOT @ 4751'. Est 2104 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2078 Starting oil rec to date:             
 Fluid lost/recovered today: 26 Oil lost/recovered today:             
 Ending fluid to be recovered: 2104 Cum oil recovered:             
 IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used:            Job Type:           Company:           Procedure or Equipment detail:           

Max TP:            Max Rate:            Total fluid pmpd:           Avg TP:            Avg Rate:            Total Prop pmpd:           ISIP:            5 min:            10 min:            FG:           Completion Supervisor: Gary Dietz

## COSTS

NC #1 rig	
Weatherford BOP	
NDSI trucking	
NDSI wtr & truck	
NPC trucking	
Zubiate HO truck	
NPC - "B" grade tbg	
Weatherford swivel	
NPC sfc equipment	
NPC labor & welding	
Mt. West sanitation	
Monks pit reclaim	
NPC supervision	
DAILY COST:	\$0
TOTAL WELL COST:	\$0



## DAILY COMPLETION REPORT

WELL NAME: Jonah 16-15-9-16Report Date: Jan. 31, 2006Day: 04Operation: CompletionRig: NC #1

## WELL STATUS

Surf Csg: 8-5/8' @ 301' Prod Csg: 5-1/2" @ 5818' Csg PBTD: 5772'  
 Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 5698' BP/Sand PBTD: 5772'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GG sds	3678- 3694'	4/64	CP1 sds	5400- 5410'	4/40
GB6 sds	4032- 4044'	4/48			
PB8 sds	4162- 4168'	4/24			
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan. 30, 2006SITP: 25 SICP: 25

Thaw wellhead, BOP & tbg stump W/ HO truck. Bleed pressure off well. Rec est 5 BTF. Con't PU & TIH W/ bit & tbg f/ 4751'. Tag fill @ 4850'. RU power swivel. Con't C/O sd & drill out composite bridge plugs as follows (using conventional circulation): sd @ 4850', plug @ 4910' in 37 minutes; no sd, plug @ 5100' in 50 minutes. Hang back swivel & con't PU tbg. Tag fill @ 5691'. PU swivel. Drill plug remains & sd to PBTD @ 5772'. Circ hole clean. Los est 60 BW during cleanout. RD swivel. Pull EOT to 5698'. RU swab equipment. IFL @ sfc. Made 8 swb runs rec 93 BTF W/ light gas, tr oil & tr sd. FFL @ 1200'. SIFN W/ est 2066 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2104 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 38 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 2066 Cum oil recovered: \_\_\_\_\_  
 IFL: sfc FFL: 1200' FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: tr \_\_\_\_\_

## STIMULATION DETAIL

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

Company: \_\_\_\_\_

Procedure or Equipment detail: \_\_\_\_\_

## COSTS

NC #1 rig  
 Weatherford BOP  
 Zubiate HO truck  
 Weatherford swivel  
 NDSI wtr disposal  
 NPC location cleanup  
 CDI TA  
 CDI SN  
 NPC supervision

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Gary Dietz

DAILY COST: \_\_\_\_\_ \$0

TOTAL WELL COST: \_\_\_\_\_ \$0



**Day: 05**

Rig: NC #1

DAILY COST:	\$0
TOTAL WELL COST:	\$0

## DAILY COMPLETION REPORT

**WELL NAME:** Jonah 16-15-9-16

**Report Date:** Feb. 2, 2006

**Day: 06**

<b>Operation:</b>	<b>Completion</b>
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Rig: NC #1

## WELL STATUS

Surf Csg:	8-5/8'	@	301'	Prod Csg:	5-1/2"	@	5818'	Csg PBDT:	5772'	
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Anchor @:	5390'	BP/Sand PBDT:	5772'

## PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
GG sds	3678- 3694'	4/64	CP1 sds	5400- 5410'	4/40
GB6 sds	4032- 4044'	4/48			
PB8 sds	4162- 4168'	4/24			
C sds	4672- 4680'	4/32			
B2 sds	4808- 4814'	4/24			
A3 sds	4985- 4994'	4/36			

## CHRONOLOGICAL OPERATIONS

**Date Work Performed:** Feb. 1, 2006

**SITP: 25      SICP: 50**

Thaw wellhead, BOP & tbg stump W/ HO truck. Bleed gas off well. Con't swabbing well for cleanup. IFL @ 500'. Made 10 swb runs rec 86 BTF W/ light gas & trace oil. Recovering no sand, but pulling short loads. FFL @ 1100'. TIH W/ tbg. Tag sd @ 5765' (7' new fill). C/O sd to PBTD @ 5772'. Circ hole clean. Lost est 70 BW & rec 5 BO. LC excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 1 jt tbg, new CDI & 1/2" TA (45K) & 169 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5390' W/ SN @ 5424' & EOT @ 5490'. Land tbg W/ 15,000# tension. NU wellhead. PU & TIH W/ pump and "B" grade rod string to 1375'. PU polished rod & SIFN Est 2036 BWTR.

### FLUID RECOVERY (BBLS)

<b>Starting fluid load to be recovered:</b> <u>2052</u> <b>Fluid lost/recovered today:</b> <u>16</u> <b>Ending fluid to be recovered:</b> <u>2036</u> <b>IFL:</b> 500' <b>FFL:</b> 1100' <b>FTP:</b>	<b>Starting oil rec to date:</b> _____ <b>Oil lost/recovered today:</b> _____ <b>Cum oil recovered:</b> _____ <b>Choke:</b> _____
<b>Final Fluid Rate:</b> _____ <b>Final oil cut:</b> <u>tr</u>	

## TUBING DETAIL

## ROD DETAIL

## COSTS

				NC #1 rig	
KB	12.00'			Weatherford BOP	
169	2 7/8 J-55 tbg (5377.82')			Zubiate HO truck	
	TA (2.80' @ 5389.82' KB)			NPC supervision	
1	2 7/8 J-55 tbg (31.30')				
	SN (1.10' @ 5423.92' KB)				
2	2 7/8 J-55 tbg (64.41')				
	2 7/8 NC (.45')				
EOT	5489.88' W/ 12' KB				

**DAILY COST:** \$0

**TOTAL WELL COST:** \$0

**Completion Supervisor:** Gary Dietz





**Day: 07**

Rig: NC #1

**TOTAL WELL COST:** \$0

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 3628'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 180' balance plug using 26 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 46 sx Class "G" cement down 5 ½" casing to 377'

The approximate cost to plug and abandon this well is \$42,000.

## Jonah Federal 16-15-9-16

Spud Date: 12/28/05  
Put on Production: 02/02/06  
GL: 5704' KB: 5716'

Initial Production: BOPD,  
MCFD, BWPD

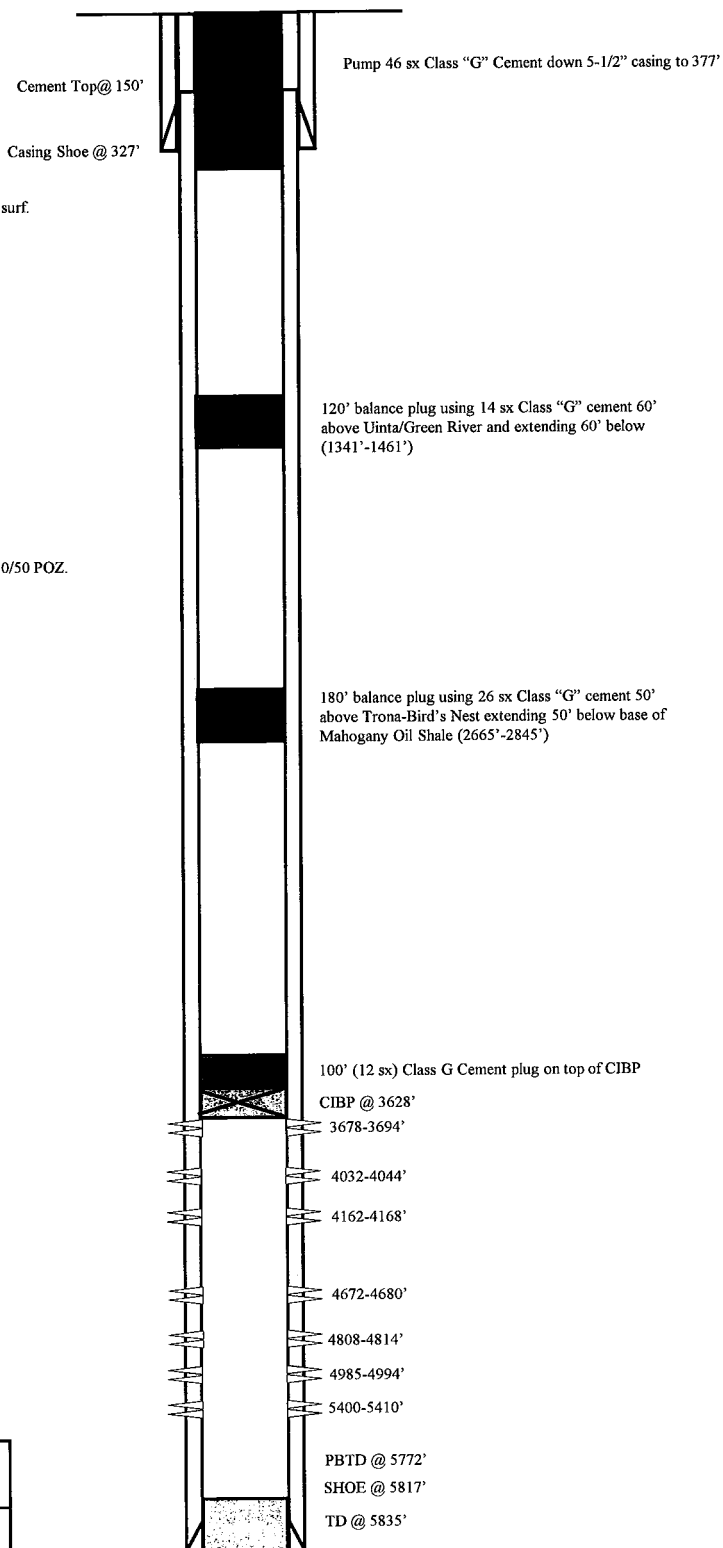
### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.16')  
DEPTH LANDED: 327.01' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5818.63')  
DEPTH LANDED: 5817.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 150'

### Proposed Injection Wellbore Diagram



### Jonah Federal 16-15-9-16

512' FSL & 535' FEL  
SE/SE Section 15-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32754; Lease #UTU-17985